



## **MILL-MAX MFG. CORP.**

**190 Pine Hollow Road  
Oyster Bay, NY 11771  
www.mill-max.com**

Mill-Max Mfg. Corp. is a vertically integrated engineering and manufacturing company capable of producing over 100 million interconnect components a week, making us the largest manufacturer of precision-machined interconnect components in North America.

Established in 1971 by Roger Bahnik, Chairman and CEO, Mill-Max has a tradition of exercising total control from raw materials to finished product. Our 150,000 square foot plant, located in Oyster Bay, NY, houses all facilities including: engineering, customer service, sales & marketing, tooling, primary and secondary machining, stamping, gold and tin plating, injection molding, automatic assembly operations and strict process control, monitored by our experienced Quality Control Inspectors.

Mill-Max is particularly distinguished by its use of proprietary high speed turning machines. On our factory floor, hundreds of automated machines turn copper alloy rod and wire at high speed as cutting tools shape each pin. This method enables us to hold tolerances down to +/- .0005 inches. High-speed turning machines have the flexibility to be easily and quickly re-configured to make pins in different sizes and shapes. This makes the task of producing custom products simple.

In this Design Guide, you will find a wide variety of interconnect components. Our product line includes precision-machined spring-loaded connectors, SIP, DIP, PGA, BGA, and PLCC sockets, board-to-board interconnects and pin headers, PCB pins, receptacles and solder terminals, all available in SMT and through-hole. Cannot find what you need? Remember, Mill-Max specializes in application specific products. Contact one of our technical services engineers to discuss your specific requirements.

Mill-Max products are found in such diversified markets as:

- Automotive
- Backplanes
- Broadcasting Equipment
- Bar Code Scanners
- Cable Television
- Cellular Phones
- Computers
- Connectors
- DC/DC Converters
- Fiber Optics
- Industrial Controls
- Instrumentation
- Medical Cables
- Networking Systems
- Pagers
- Power Supplies
- Scanners
- Smoke Detectors
- Test Equipment
- Telecommunications

From order entry to shipping product, Mill-Max is focused on the total satisfaction of our customers. Through our sales representative organizations, Mill-Max products are sold directly, as well as through a network of 26 authorized distributors located throughout the United States and in various locations worldwide. It's this commitment to excellence that truly makes Mill-Max your source for Maximum Interconnect Solutions.

### **NOTE**

- All dimensions in this design guide are in inches unless otherwise stated.
- All rights reserved. Copyright Mill-Max Mfg. Corp., 2009
- In the interest of improved design and performance, Mill-Max reserves the right to make changes in its specifications without prior notice.
- Orders subject to terms and conditions @ [www.mill-max.com](http://www.mill-max.com)

## Spring-Loaded Connectors

**PAGES 6 - 17**

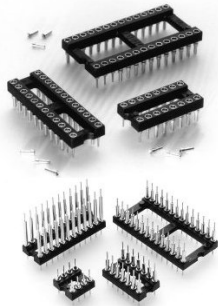


- Surface Mount, Single & Double Row Strips
- Through Hole, Single & Double Row Strips
- Target Connectors for Spring-Loaded Assemblies
- Discrete Spring-Loaded Contacts

Pages 6 - 9  
 Pages 10 - 12  
 Pages 13 - 14  
 Pages 15 - 17

## DIP Sockets, Carriers & Headers

**PAGES 18 - 64**



- Quick Selector Chart
- DIP Insulators
- DIP Sockets and Carriers
- Mil-S-83734 Approved
- DIP Headers
- Shrink DIP Sockets and Headers
- Right Angle Display Sockets
- Relay Sockets and Zig-Zag Sockets

Page 18  
 Pages 19 - 21  
 Pages 22 - 47  
 Pages 32 - 35  
 Pages 48 - 56  
 Pages 57 - 60  
 Pages 61 - 62  
 Pages 63 - 64

## SIP Interconnects, Sockets, Carriers & Headers

**PAGES 65 - 111**

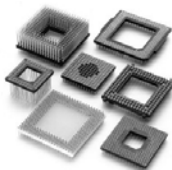


- Quick Selector Chart
- .050" Grid Interconnects
- 2mm Grid Interconnects
- .100" Grid Interconnects
- .200" Grid Interconnects
- .100" Grid SIP Sockets
- .100" Grid SIP Headers

Page 65  
 Pages 66 - 69  
 Pages 70 - 72  
 Pages 73 - 87  
 Pages 88  
 Pages 89 - 101  
 Pages 102 - 111

## PGA, BGA, PLCC, Sockets & Headers

**PAGES 112 - 120**



- PGA Sockets and Headers
- BGA Adapter Systems
- PLCC Sockets

Pages 112 - 116  
 Page 117  
 Pages 118 - 120

## USB, Test Point, TO Sockets and Jumpers

**PAGES 121 - 125**

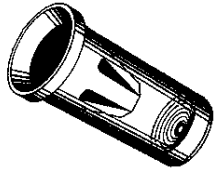


- USB Sockets
- TO Sockets
- Test Point Sockets
- Jumpers

Pages 121 - 122  
 Page 123  
 Page 124  
 Page 125

**PIN RECEPTACLES**

**PAGES 126 - 165**



Pin receptacles are individual component lead sockets primarily used for the plugging and unplugging of components on pc boards. Pin receptacles are made by press-fitting a pre-tooled “multi-finger” contact into a precision-machined shell. These receptacles will accept round pins ranging in diameter from .008” to .102”, as well as square & rectangular component leads.

**WRAPOST RECEPTACLES**

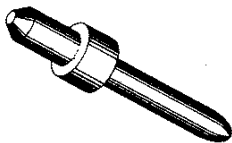
**PAGES 166 - 169**



Wrapost receptacles are individual component lead sockets with .025” or .045” square pin termination for wire wrapped interconnection. Wrapost receptacles will accept round pins ranging in diameter from .015” to .047”, as well as square & rectangular component leads.

**PRINTED CIRCUIT PINS**

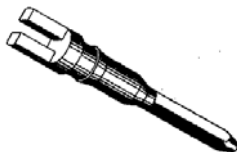
**PAGES 170 - 191**



Printed circuit pins are machined, individual pins used for various plug-in applications and board to board interconnection. They are commonly fastened to pc boards by being press-fit, swaged (riveted) or soldered.

**WRAPOST TERMINALS**

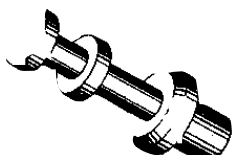
**PAGES 192 - 195**



Wrapost terminals are individual pins with .025” or .045” square termination for wire wrapped interconnection. They are commonly fastened to pc boards by being press-fit, swaged (riveted) or soldered.

**SOLDER TERMINALS**

**PAGES 196 - 212**



Solder terminals are machined terminals used primarily for attaching wires to circuit boards. Turret, slotted and pin types are available. They are commonly swaged (riveted) and soldered to pc boards.

**GENERAL CONTACT INFORMATION / DATA**

**PAGES 214 - 226**

**MATERIALS USED BY MILL-MAX**

**PAGE 227**

**TERMS, DEFINITIONS AND INDEX**

**PAGES 228 - 234**



**Pins & Receptacles:**

Pins and receptacle shells are manufactured by precision high speed turning machines. The base materials for these components are copper alloys.

Receptacles are a two piece construction consisting of a plated contact press-fit into a plated shell. The contacts are stamped from beryllium copper strip.

**Materials:**

**Pins & Receptacle Shells:**

**Brass Alloy** 360 UNS C36000 ASTM-B16 (Up to a .250" diameter)

**Phosphor Bronze** alloy 544 UNS C54400 ASTM-B139 (Up to a .072" diameter)

**Tellurium Copper** alloy 145 UNS C14500 ASTM-B301 (Up to a .156" diameters)

See page 126 for a complete list of standard available stock diameters.  
(For the availability of larger diameter materials contact Technical Services).

**Contacts:**

**Beryllium copper** UNS C17200 ASTM-B194 (For most applications)

**Beryllium Nickel** UNS N03360 (For high temperature applications)

(For individual contact specifications see pages 216-226)  
The materials listed above are all RoHS compliant.

**Dimensional, Mechanical & Environmental Data:**

**Standard tolerances for pins and receptacle shells are:**  
Diameters +/- .002"  
Lengths +/- .005"  
Angles +/- 2°

**Mechanical Life (Durability):** Mill-Max receptacles are capable of 1000 minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish along with application specific variables will affect the life of a contact.

**Contact Forces:** See individual contact specifications on pages 216-226.

**Environmental Data:**

- Operating temperature range: -55/+125° C
- Vibration (No electrical discontinuity  
Greater than 1 μs): 10-2000 HZ, 15 G
- Shock (No electrical discontinuity  
Greater than 1 μs): 50 G

Electrical data is dependent on the contact used in the receptacle. See page 214 for free air current ratings of the contacts.

**Platings:**

- GOLD per ASTM B 488 & MIL-G-45204, Type 1, Code C
- SILVER per ASTM B 700, Grade B, Class S
- TIN per ASTM B 545, Type 1
- TIN/LEAD (93/7) per ASTM B 545
- ELECTRO-SOLDER (60/40) per ASTM B 579, Bright
- NICKEL per SAE-AMS-QQ-N-290
- ELECTROLESS NICKEL per MIL-C-26074
- COPPER per SAE-AMS-2418

**Connectors:**

Connectors are headers, sockets and interconnects. They consist of pins, receptacles or spring pins assembled into thermoplastics or FR-4 epoxy laminate insulator bodies. They are available in DIP, SIP, strip and PGA packages in grids of .050", .070", 2 mm, .100" and .100" interstitial for PGA's.

**Electrical Data:**

	<b>SERIES:</b>	<b>100-700</b>	<b>800</b>	<b>830</b>	<b>850</b>
- Rated current (Amps):		1	3	3	1
- Rated voltage:		100 VRMS/150 VDC			
- Contact resistance:		10 mΩ max.			
- Insulation resistance:		10,000 MΩ min.			
- Dielectric strength:		1000 VRMS min. (700 VRMS min. for series 117 Shrink DIP)			
- Air and creepage distance (inch.):		.028	.033/.028	.020	.016/.020 (.012 for series 117 Shrink DIP)
- Capacitance(pF max):		.8	1	1	1

Electrical data above does not apply to BGA, PLCC, USB or Spring-Loaded connectors. Electrical data for these products can be found on the following pages: BGA – Page 113; PLCC - Page 113; USB - Pages 121 & 122; Spring-Loaded connectors – Pages 6 - 12.

**Operating temperature range:** -55/+125° C

**General tolerances for assembled connector products:**

- Lengths: +/- .010"
- Connector Flatness: .005" (up to 1' in length)
- Co-planarity of SMT Connectors: .005" (up to 1' in length)
- For connectors exceeding 1" in length the flatness /co-planarity may exceed .005". Please contact Technical Services for more information.

(Note: Specifications and tolerances are provided wherever possible. Due to the wide variety of connectors Mill-Max offers, the specific tolerances vary from product to product. If you need information regarding the tolerance of a particular part, please contact technical services.)



# GENERAL TECHNICAL SPECIFICATIONS

## Materials:

### **Insulator Bodies:**

Standard material is glass filled thermoplastic polyester (PCT), self extinguishing, rated UL 94 V-0.

Some surface mount, pin grid array and spring pin connector insulators are molded from high temperature Nylon 46, rated UL 94 V-0.

FR-4 Epoxy laminate is a thermoset material used in custom insulators and high temperature applications. It is especially useful because of its low Temperature Coefficient of Expansion (TCE). See chart below:

TCE for molded insulator	30 ppm/° C
TCE for 4-Layer PCB	13 ppm/° C
TCE for unclad epoxy	12 ppm/° C

The above insulator materials are all suitable for lead free soldering processes up to 260° C.

For complete material properties of plastics used by Mill-Max see page 227.

For inquiries regarding other insulator materials, please contact Technical Services.

## Spring Pins:

Spring pins consist of precision-machined brass components assembled together with beryllium copper or stainless steel springs. External components and internal springs are gold plated. Spring pins are designed to be used at mid-stroke. Over compression can cause damage restricting the movement of the plunger.

### **Materials:**

External Components (Body, Piston, Base, Tail):

**Brass Alloy** 360 UNS C36000 ASTM-B16

### **Springs:**

**Beryllium copper** UNS C17200 ASTM-B197

**Stainless Steel 302**

## Dimensional, Mechanical & Environmental Data:

### **Standard tolerances for spring pins at initial height:**

Diameters +/- .002"

Lengths +/- .006"

**Mechanical life (Durability):** 1,000,000 cycles minimum

**Force tolerance:** +/- 20 g (See individual spring pin data on pages 6- 17 for forces)

**Stroke tolerance:** +/- .005"

### **Environmental Data:**

- Operating temperature range: -55/+125° C

- Vibration (No electrical discontinuity  
Greater than 1 µs): 0-200 HZ, 10G

- Shock (No electrical discontinuity  
Greater than 1 µs): 50 g

For complete material properties of metals, platings and plastics used by Mill-Max see page 227.

Where applicable, Mill-Max products and procedures are designed to meet the following standards:

MIL-STD 1916	-	DOD preferred methods for acceptance of product
MIL-STD 202G	-	Test methods for electronic and electrical component parts
MIL-STD 45662	-	Calibration system requirements, or ISO 10012
MIL-F-14072	-	Finishes for ground based electronic equipment
MIL-I-45208	-	Inspection system requirements, or equivalent
MIL-S-83505	-	General specification for sockets (lead, electronic components)
MIL-S-83734	-	General specification for DIP sockets

In the interest of improved design, quality and performance, Mill-Max reserves the right to make changes in its specifications without prior notice.

## SPRING-LOADED CONNECTORS

Mill-Max Spring-Loaded Connectors are ideal for a wide range of applications, from portable data acquisition units and mobile communication to medical and military equipment applications. Their unique design can be the perfect answer for many situations, establishing electrical continuity on virtually any surface including problematic vibratory environments. Unlike the fixed mating height created by pins and receptacles, spring-loaded connectors are able to compensate for floating heights and uneven mating surfaces, thus maintaining a reliable electrical connection.

When strategically placed within an assembly and utilized correctly (shielded from over compression and direct side load forces,) miniature spring-loaded connectors can provide a reliable connection up to a million cycles.

Some typical applications include:

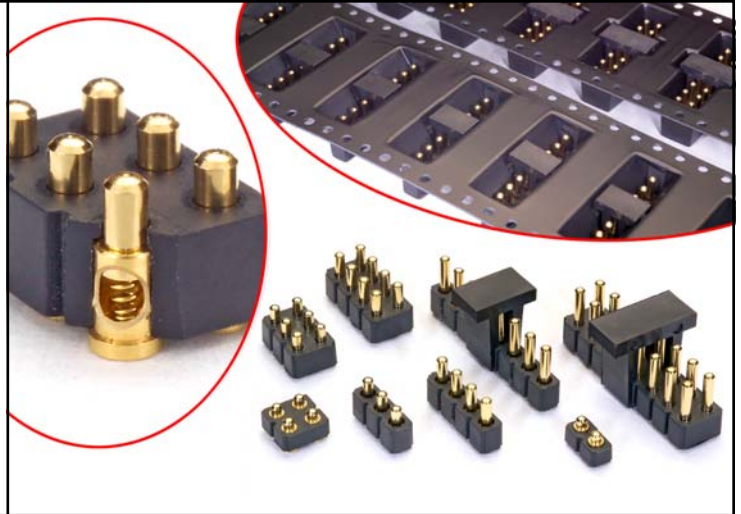
- The internal battery connection in portable instruments, or as the external battery connection for charging these instruments (docking stations.)
- As a method for stacking printed circuit boards in an assembly. Utilizing spring pin connectors is a convenient approach to creating mezzanine-tiered board modules that can be assembled and disassembled quickly.
- Blind-mating applications. The spring pin piston need only make contact with its mating surface. This is typically a land or pad that is larger than the plunger diameter. Compare this to a pin and socket connection where alignment must be more precise for the pin to enter the socket.

Mill-Max Spring-Loaded Connectors can mate to the following surfaces:

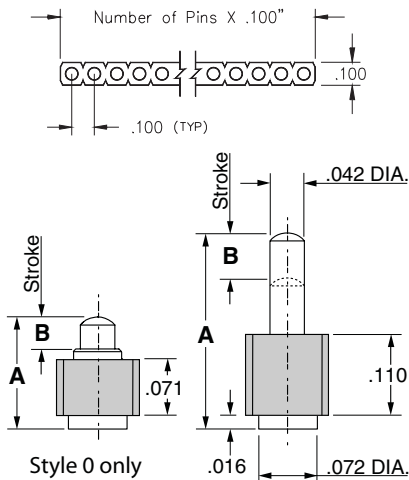
- A conductive input/output pad found on the instrument pack itself.
- A gold-plated land on a circuit board. A hard gold over nickel plated surface is recommended for the mating surface. This is the same as would be used for the printed circuit fingers associated with card edge connectors.
- Individual Mill-Max gold-plated nail head pins which can be soldered to the mating circuit board to serve as targets.
- Mill-Max Target Connectors which provide a large .070" diameter flat, gold-plated circuit path to the board.



- Modular contacts for use on .100" grid, available in five heights from .137" to .236", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a long stroke relative to the low profile of the assembly.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- Both 811 & 813 series, contact styles 1 thru 4, are available on 32mm wide carrier tape for pick and place assembly per EIA-481. See page 9 for strip lengths available and ordering information.



**SINGLE ROW Series 811**



**Ordering Information**

**Single Row Series 811**

811-22-0XX-30-00X-101

**Specify # of contacts**

Specify contact style 0-4

01-64

**Double Row Series 813**

813-22-0XX-30-00X-101

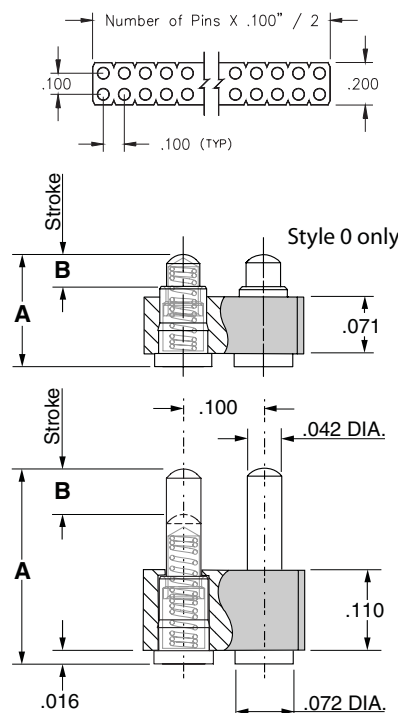
**Specify # of contacts**

Specify contact style 0-4

04-72

**For 811 & 813 Tape & Reel packaging See page 9**

**DOUBLE ROW Series 813**



CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
0	.137	.039
1	.177	.045
2	.197	.055
3	.217	.055
4	.236	.055

**Technical Specifications**

**Materials:**

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel  
 Spring: Beryllium copper plated 10μ" gold  
 Insulator: High temp. thermoplastic, rated UL94 V-0

**Mechanical:**

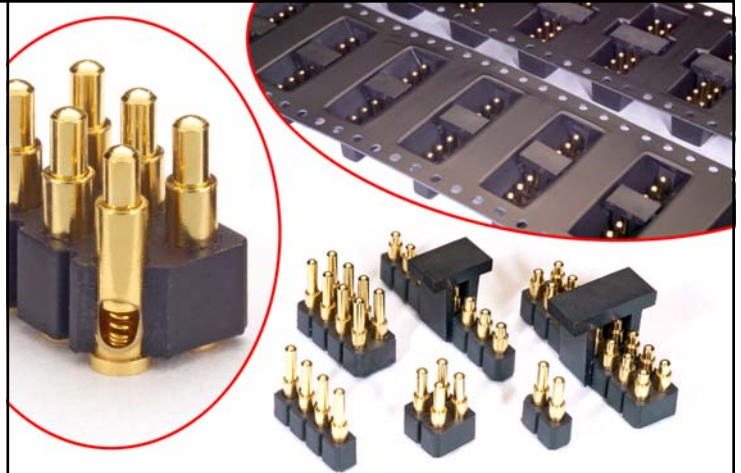
Spring force @ initial height (A): 25 grams  
 Spring force @ mid stroke (B/2): 60 grams  
 Durability: 1,000,000 cycles min.  
 Coplanarity: .005" (Single Row up to 10 pins; Double Row up to 20 pins) For higher pin counts contact Tech Support.

**Electrical:**

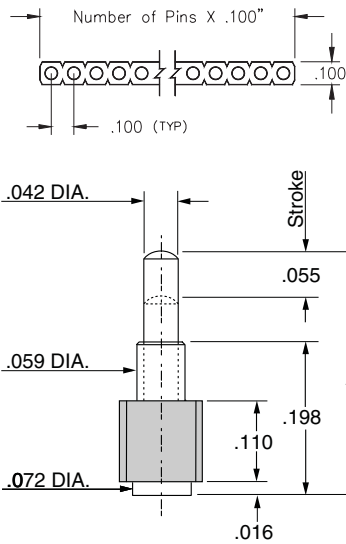
Voltage rating: 100Vrms/150Vdc  
 Current rating: 2A (continuous), 3A (peak) per contact  
 Contact resistance: 20mΩ max.  
 Insulation resistance: 10,000MΩ min.  
 Dielectric strength: 700Vrms min.  
 Capacitance: 1pF max.



- Modular contacts for use on .100" grid, available in ten heights from .255" to .430", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a long stroke relative to the low profile of the assembly.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- Both 812 & 814 series are available on 32mm or 44mm wide carrier tape for automated pick and place assembly per EIA-481. See page 9 for strip lengths available and ordering information.



**SINGLE ROW Series 812**



**Ordering Information**

**Single Row Series 812**

812-22-0XX-30-00X-101

**Specify # of contacts**

**Specify contact style 0-9**

02-64

**Double Row Series 814**

814-22-0XX-30-00X-101

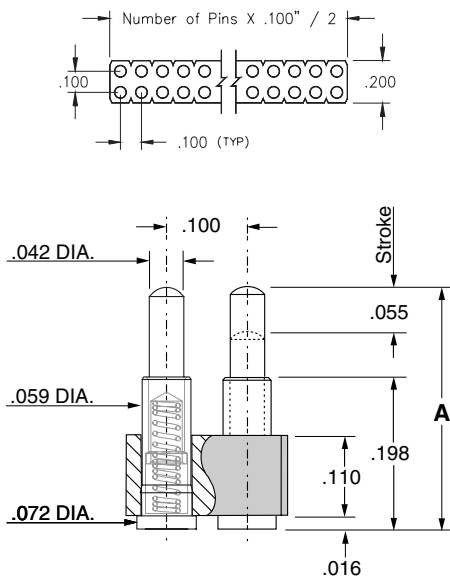
**Specify # of contacts**

**Specify contact style 0-9**

04-72

**For 812 & 814 Tape & Reel packaging See page 9**

**DOUBLE ROW Series 814**



CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	.255	5	.350
1	.275	6	.370
2	.295	7	.390
3	.315	8	.410
4	.335	9	.430

**Technical Specifications**

**Materials:**

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel  
 Spring: Beryllium copper plated 10μ" gold  
 Insulator: High temp. thermoplastic rated UL94 V-0

**Mechanical:**

Spring force @ initial height (A): 25 grams  
 Spring force @ mid stroke (.0275): 60 grams  
 Durability: 1,000,000 cycles min.  
 Coplanarity: .005" (Single Row up to 10 pins; Double Row up to 20 pins) For higher pin counts contact Tech Support.

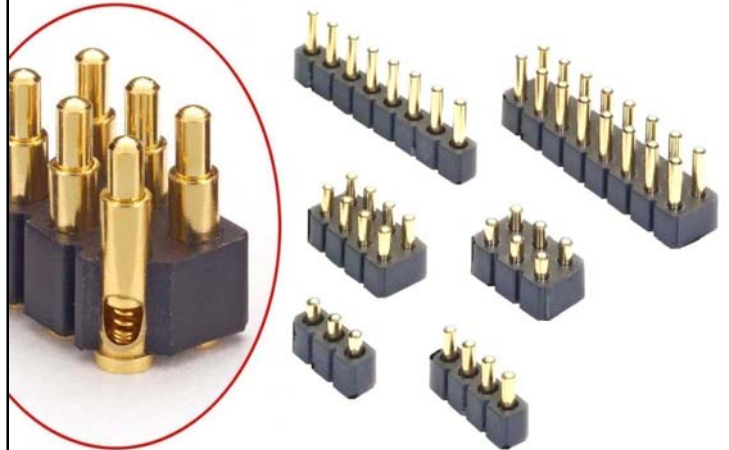
**Electrical:**

Voltage rating: 100Vrms/150Vdc  
 Current rating: 2A (continuous), 3A (peak) per contact  
 Contact resistance: 20mΩ max.  
 Insulation resistance: 10,000MΩ min.  
 Dielectric strength: 700Vrms min.  
 Capacitance: 1pF max.

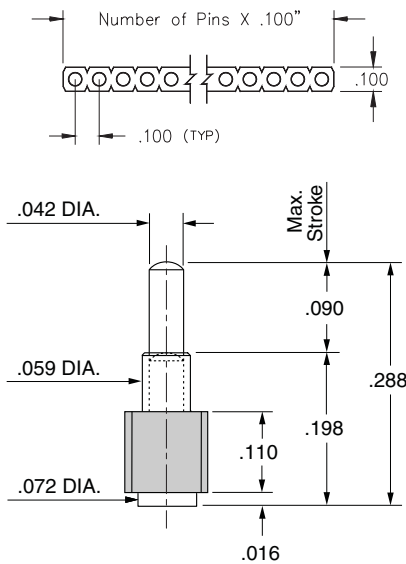




- Modular contacts for use on .100" grid, available in a height of .288", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .045" mid. stroke and a .090" max. stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 819 & 820 series contact strips are designed for placement onto a Ø .082" solder pad prior to reflow soldering.



**SINGLE ROW Series 819**



**Fig. 1**

**Ordering Information**

**Single Row Series 819**

819-22-0XX-30-001101

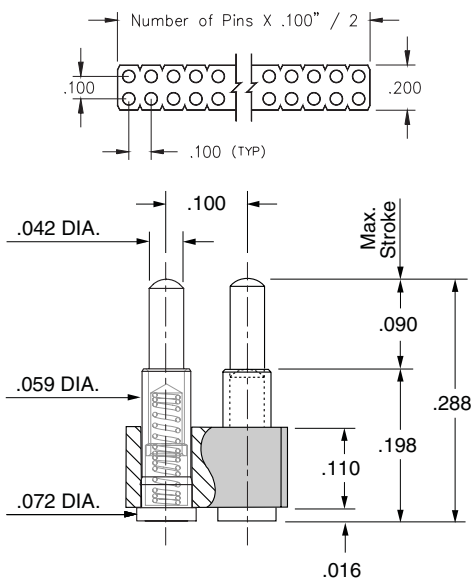
**Specify # of contacts** → 01-64

**Double Row Series 820**

820-22-0XX-30-001101

**Specify # of contacts** → 04-72

**DOUBLE ROW Series 820**



**Materials:**

Contact piston & Base: Machined copper alloy plated 20µ" gold over 100µ" nickel  
 Spring: Beryllium copper plated 10µ" gold  
 Insulator: High temp. thermoplastic rated UL94 V-0

**Mechanical:**

Spring force @ initial height : 25 grams  
 Spring force @ mid stroke : 60 grams  
 Durability: 1,000,000 cycles min.

**Electrical:**

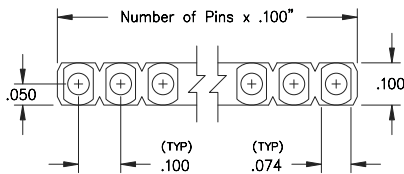
Voltage rating: 100Vrms/150Vdc  
 Current rating: 2A (continuous), 3A (peak) per contact  
 Contact resistance: 20mΩ max.  
 Insulation resistance: 10,000MΩ min.  
 Dielectric strength: 700Vrms min.  
 Capacitance: 1pF max.



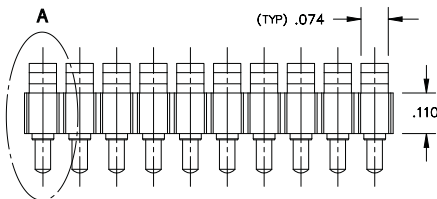
- Modular contacts for use on .100" grid, supplied in single row contact strips. Piston action is parallel to the board surface.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .045" mid. stroke & .090" max. stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 810 series contact strips are designed for manual placement onto solder pads.



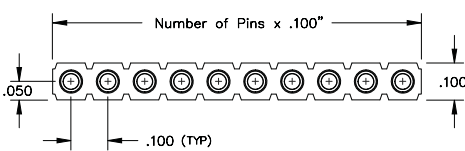
**Single Row Series 810**



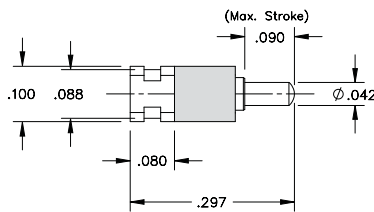
**TOP VIEW**



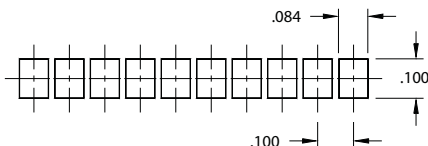
**FRONT VIEW**



**DETAIL 'A'**



**Suggested P.C.B. FOOTPRINT**



Coplanarity .005". For Pin Counts >10 positions consult Technical Support.

**Ordering Information**

**Series 810**

**Single Row Surface Mount**

810-22-0\_\_-40-001101

Specify # of pins

01-10

*For Electrical, Mechanical & Environmental Data, See pg. 4.1*

*For RoHS compliance select  $\diamond$  plating code.*

**Technical Specifications**

**Materials:**

Contact piston & Base: Machined copper alloy plated 20 $\mu$ " gold over 100 $\mu$ " nickel.

Spring: Beryllium copper plated 10 $\mu$ " gold

Insulator: High temp. thermoplastic rated UL94 V-0

**Mechanical:**

Spring force @ initial height: 25 grams

Spring force @ mid stroke: 60 grams

Durability: 1,000,000 cycles min.

**Electrical:**

Voltage rating: 100Vrms/150Vdc

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20m $\Omega$  max.

Insulation resistance: 10,000M $\Omega$  min.

Dielectric strength: 700Vrms min.

Capacitance: 1pF max.





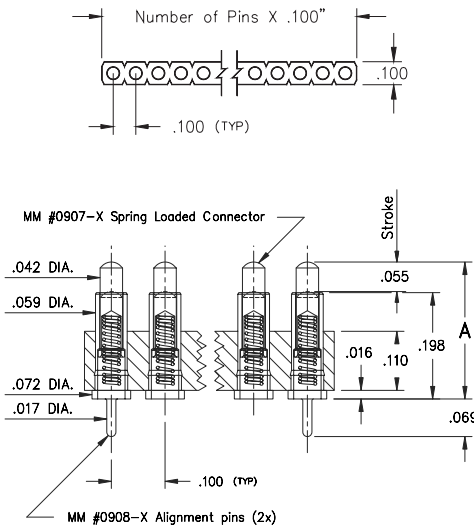
**SPRING-LOADED CONNECTORS**  
**Surface Mount with Alignment pins**  
**Single and Double Row Strips**

**Series 812...01X101**  
**814...01X101**

- Modular contacts for use on .100" grid, available in ten heights from .255" to .430", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .0275 mid stroke & .055 max stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 812 & 814 series contact strips are designed for manual placement into Ø .023±.003" plated-throughs in the circuit board prior to intrusive reflow soldering.



**Single Row Series 812...01X101**



**Ordering Information**

**Single Row Series 812...01X101**

812-22-0XX-30-01X-101

**Specify # of contacts**

Specify contact style 0-9  
03-64

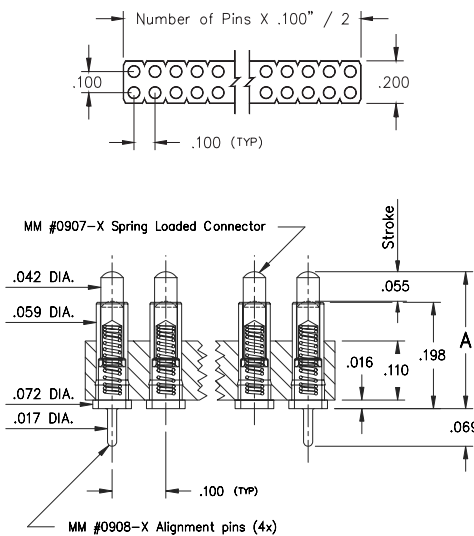
**Double Row Series 814...01X101**

814-22-0XX-30-01X-101

**Specify # of contacts**

Specify contact style 0-9  
06-72

**Double Row Series 814...01X101**



CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	.255	5	.350
1	.275	6	.370
2	.295	7	.390
3	.315	8	.410
4	.335	9	.430

**Technical Specifications**

**Materials:**

Contact piston & Base: Machined copper alloy plated 20µ" gold over 100µ" nickel  
 Spring: Beryllium copper plated 10µ" gold  
 Insulator: High temp. thermoplastic rated UL94 V-0

**Mechanical:**

Spring force @ initial height (A): 25 grams  
 Spring force @ mid stroke (B/2): 60 grams  
 Durability: 1,000,000 cycles min.

**Electrical:**

Voltage rating: 100Vrms/150Vdc  
 Current rating: 2A (continuous), 3A (peak) per contact  
 Contact resistance: 20mΩ max.  
 Insulation resistance: 10,000MΩ min.  
 Dielectric strength: 700Vrms min.  
 Capacitance: 1pF max.



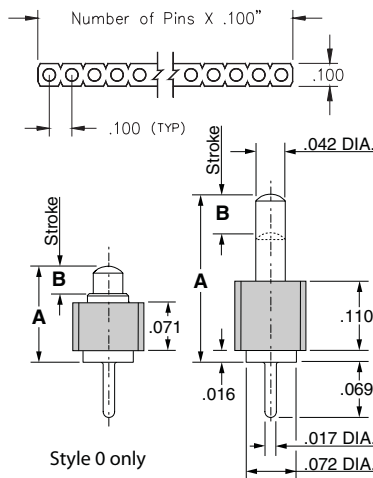
**Ordering Information for Series 811/812/813/814 in Carrier Tape**

Single Row Series 811	Double Row Series 813
<p>811-22-0XX-30-00X-191</p> <p>Specify contact style 0-4 Specify # of contacts 02 - 08 ( 32mm wide tape, 400 parts per 13" reel )</p>	<p>813-22-0XX-30-00X-191</p> <p>Specify contact style 0-4 Specify # of contacts 04 - 16 ( 32mm wide tape, 400 parts per 13" reel )</p>
<p>811-22-0XX-30-00X-191</p> <p>Specify contact style 1-4 Specify # of contacts 09 - 12 ( 44mm wide tape, 200 parts per 13" reel )</p>	<p>813-22-0XX-30-00X-191</p> <p>Specify contact style 1-4 Specify # of contacts 18 - 24 ( 44mm wide tape, 200 parts per 13" reel )</p>
<p>812-22-0XX-30-00X-191</p> <p>Specify contact style 0-2 Specify # of contacts 02 - 08 ( 32mm wide tape, 400 parts per 13" reel )</p>	<p>814-22-0XX-30-00X-191</p> <p>Specify contact style 0-2 Specify # of contacts 04 - 16 ( 32mm wide tape, 400 parts per 13" reel )</p>
<p>812-22-0XX-30-00X-191</p> <p>Specify contact style 0-2 Specify # of contacts 09 - 12 ( 44mm wide tape, 200 parts per 13" reel )</p>	<p>814-22-0XX-30-00X-191</p> <p>Specify contact style 0-2 Specify # of contacts 18 - 24 ( 44mm wide tape, 200 parts per 13" reel )</p>
<p>812-22-0XX-30-00X-191</p> <p>Specify contact style 3-9 Specify # of contacts 02 - 12 ( 44mm wide tape, 200 parts per 13" reel )</p>	<p>814-22-0XX-30-00X-191</p> <p>Specify contact style 3-9 Specify # of contacts 04 - 24 ( 44mm wide tape, 200 parts per 13" reel )</p>
<p>32mm wide, 9mm deep or 44mm wide, 13mm deep</p> <p>.176</p> <p>.281</p> <p>16mm</p> <p>VACUUM PICK-UP CLIP REMOVED AFTER SOLDERING</p>	<p>32mm wide, 9mm deep or 44mm wide, 13mm deep</p> <p>.176</p> <p>.384</p> <p>16mm</p> <p>VACUUM PICK-UP CLIP REMOVED AFTER SOLDERING</p>

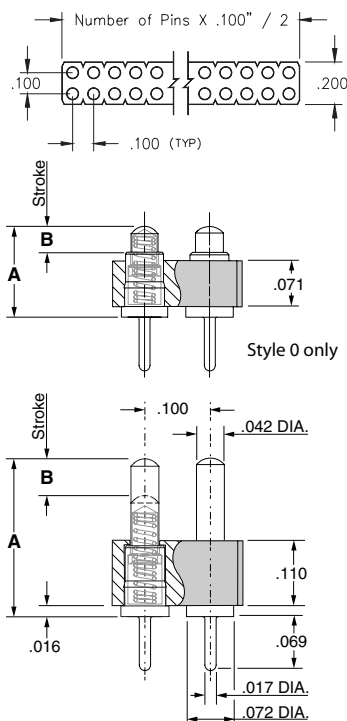
- Modular contacts for use on .100" grid, available in five heights from .137" to .236", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a long stroke relative to the low profile of the assembly.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 821 & 823 series contact strips are designed for manual placement into  $\varnothing.022 \pm .003$ " plated-through-holes in the circuit board prior to hand, wave or reflow soldering.



**SINGLE ROW Series 821**



**DOUBLE ROW Series 823**



**Ordering Information**

**Single Row Series 821**

821-22-0XX-10-00X-101

**Specify # of contacts** → 02-64 **Specify contact style** 0-4

**Double Row Series 823**

823-22-0XX-10-00X-101

**Specify # of contacts** → 04-72 **Specify contact style** 0-4

CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
0	.137	.039
1	.177	.045
2	.197	.055
3	.217	.055
4	.236	.055

**Technical Specifications**

**Materials:**

Contact piston & Base: Machined copper alloy plated 20 $\mu$ " gold over 100 $\mu$ " nickel  
 Spring: Beryllium copper plated 10 $\mu$ " gold  
 Insulator: High temp. thermoplastic rated UL94 V-0

**Mechanical:**

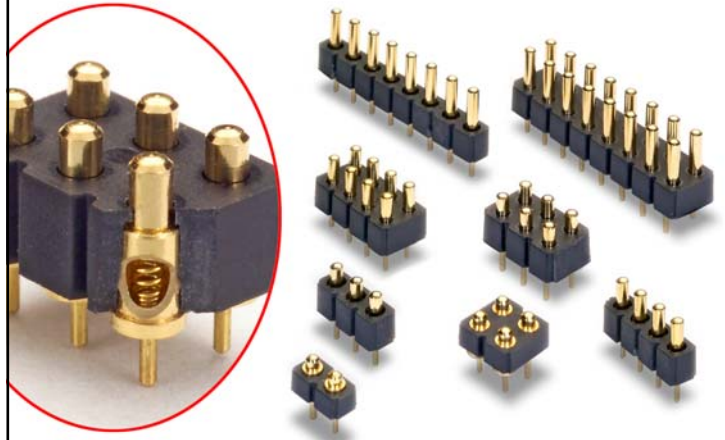
Spring force @ initial height (A): 25 grams  
 Spring force @ mid stroke (B/2): 60 grams  
 Durability: 1,000,000 cycles min.

**Electrical:**

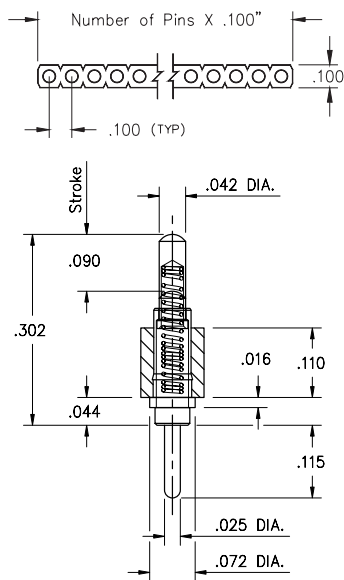
Voltage rating: 100Vrms/150Vdc  
 Current rating: 2A (continous), 3A (peak) per contact  
 Contact resistance: 20m $\Omega$  max.  
 Insulation resistance: 10,000M $\Omega$  min.  
 Dielectric strength: 700Vrms min.  
 Capacitance: 1pF max.



- Modular contacts for use on .100" grid, available in a height of .302", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .045 mid stroke & .090 max stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 825 & 827 series contact strips are designed for manual placement into  $\varnothing .030 \pm .003$ " plated-through-holes in the circuit board prior to hand, wave or reflow soldering.



**SINGLE ROW Series 825**



**Ordering Information**

**Fig. 1**

**Single Row Series 825**

825-22-0XX-10-001101

**Specify # of contacts** → 02-64

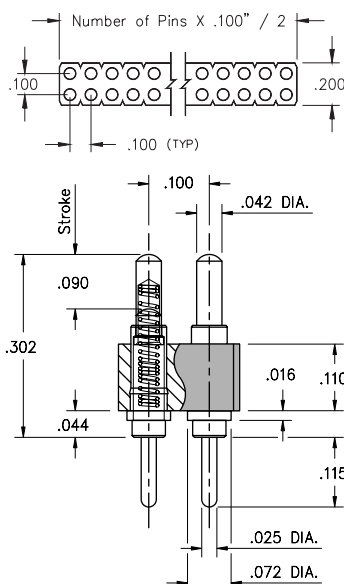
**Fig. 2**

**Double Row Series 827**

827-22-0XX-10-001101

**Specify # of contacts** → 04-72

**DOUBLE ROW Series 827**



**Technical Specifications**

**Materials:**

Contact piston & Base: Machined copper alloy plated 20 $\mu$ " gold over 100 $\mu$ " nickel  
 Spring: Beryllium copper plated 10 $\mu$ " gold  
 Insulator: High temp. thermoplastic rated UL94 V-0

**Mechanical:**

Spring force @ initial height (A): 25 grams  
 Spring force @ mid stroke (B/2): 60 grams  
 Durability: 1,000,000 cycles min.

**Electrical:**

Voltage rating: 100Vrms/150Vdc  
 Current rating: 2A (continuous), 3A (peak) per contact  
 Contact resistance: 20m $\Omega$  max.  
 Insulation resistance: 10,000M $\Omega$  min.  
 Dielectric strength: 700Vrms min.  
 Capacitance: 1pF max.

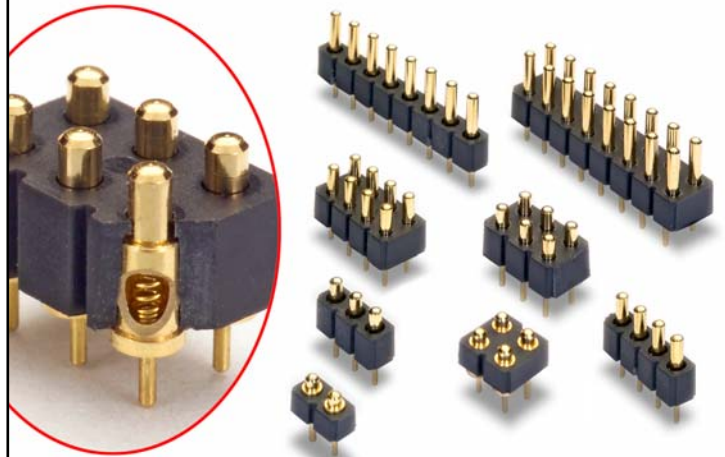




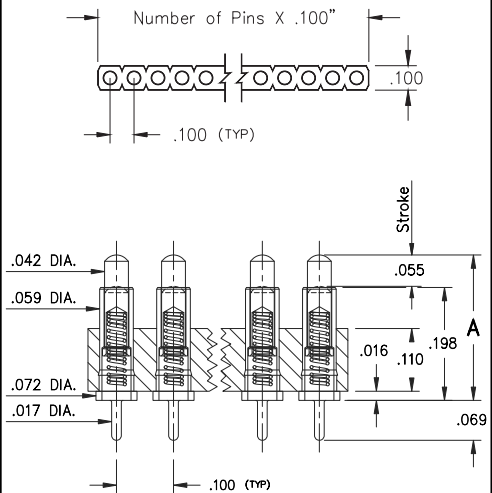
**SPRING-LOADED CONNECTORS**  
**Through Hole Mount**  
**Single and Double Row Strips**

**Series 816...00X101**  
**818...00X101**

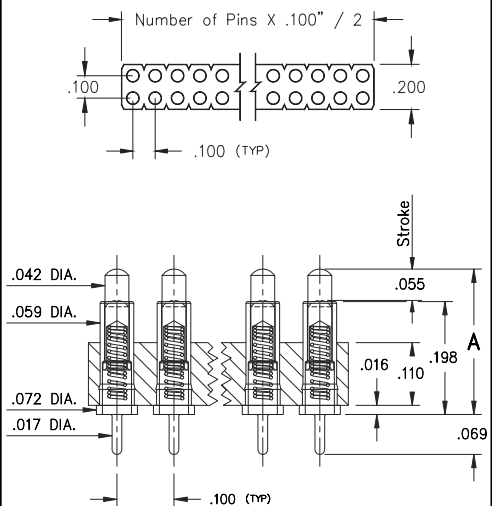
- Modular contacts for use on .100" grid, available in ten heights from .255" to .430", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .0275 mid stroke & .055 max stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 816 & 818 series contact strips are designed for manual placement into  $\varnothing .023 \pm .003$ " plated-throughs in the circuit board prior to intrusive reflow soldering.



**Single Row Series 816...00X101**



**Double Row Series 818...00X101**



**Ordering Information**

**Single Row Series 816...00X101**

816-22-0XX-10-00X101

Specify # of contacts → 02-64

Specify contact style 0-9

**Double Row Series 818...00X101**

818-22-0XX-10-00X101

Specify # of contacts → 04-72

Specify contact style 0-9

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	.255	5	.350
1	.275	6	.370
2	.295	7	.390
3	.315	8	.410
4	.335	9	.430

**Technical Specifications**

**Materials:**

Contact piston & Base: Machined copper alloy plated 20 $\mu$ " gold over 100 $\mu$ " nickel  
 Spring: Beryllium copper plated 10 $\mu$ " gold  
 Insulator: High temp. thermoplastic rated UL94 V-0

**Mechanical:**

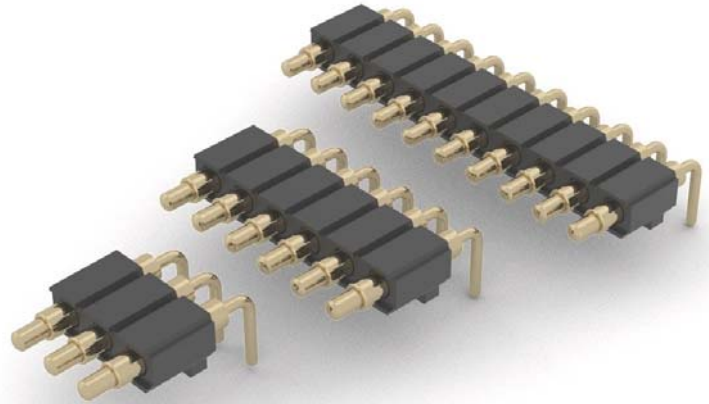
Spring force @ initial height (A): 25 grams  
 Spring force @ mid stroke (B/2): 60 grams  
 Durability: 1,000,000 cycles min.

**Electrical:**

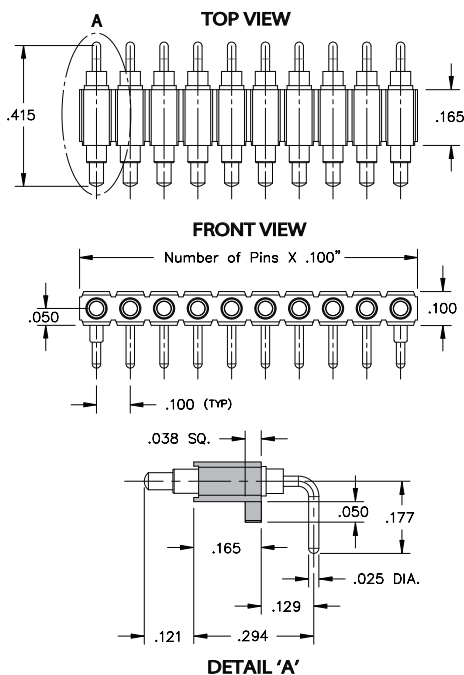
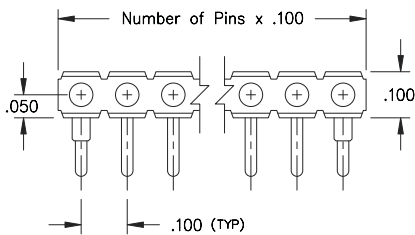
Voltage rating: 100Vrms/150Vdc  
 Current rating: 2A (continuous), 3A (peak) per contact  
 Contact resistance: 20m $\Omega$  max.  
 Insulation resistance: 10,000M $\Omega$  min.  
 Dielectric strength: 700Vrms min.  
 Capacitance: 1pF max.



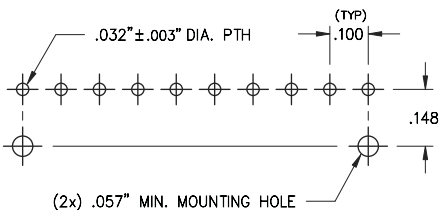
- Modular contacts for use on .100" grid, available in a height of .294", supplied in single contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .045" mid stroke and .090" max stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for wave and reflow soldering processes.
- 829 series contact strips are designed for manual placement into  $\varnothing .032 \pm .003$ " plated-thru-holes in the circuit board prior to hand, wave or reflow soldering.



**Single Row Series 829**



**Suggested P.C.B Footprint**



**Ordering Information**

**Series 829**

**Single Row Right Angle**

829-22-0\_\_-20-001101

**Specify # of pins**

02-10

*For Electrical, Mechanical & Environmental Data, See pg. 4.1*

*For RoHS compliance select  $\diamond$  plating code.*

**Technical Specifications**

**Materials:**

Contact piston & Base: Machined copper alloy plated  $20\mu$ " gold over  $100\mu$ " nickel.  
 Spring: Beryllium copper plated  $10\mu$ " gold  
 Insulator: High temp. thermoplastic rated UL94 V-0

**Mechanical:**

Spring force @ initial height: 25 grams  
 Spring force @ mid stroke: 60 grams  
 Durability: 1,000,000 cycles min.

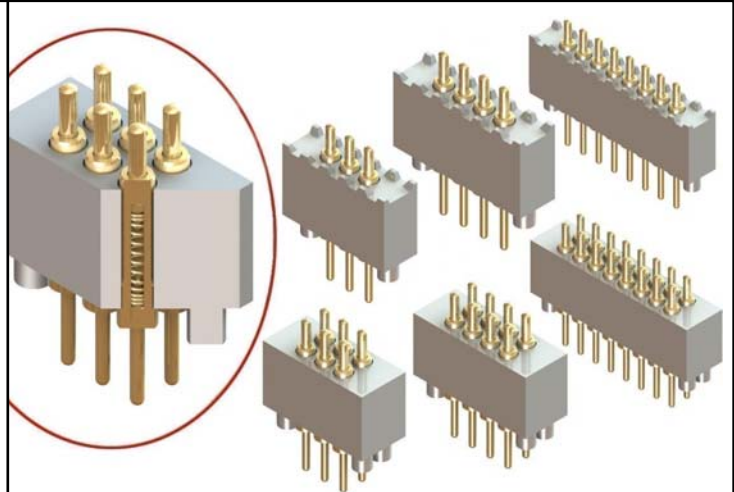
**Electrical:**

Voltage rating: 100Vrms/150Vdc  
 Current rating: 2A (continuous), 3A (peak) per contact  
 Contact resistance: 20m $\Omega$  max.  
 Insulation resistance: 10,000M $\Omega$  min.  
 Dielectric strength: 700Vrms min.  
 Capacitance: 1pF max.

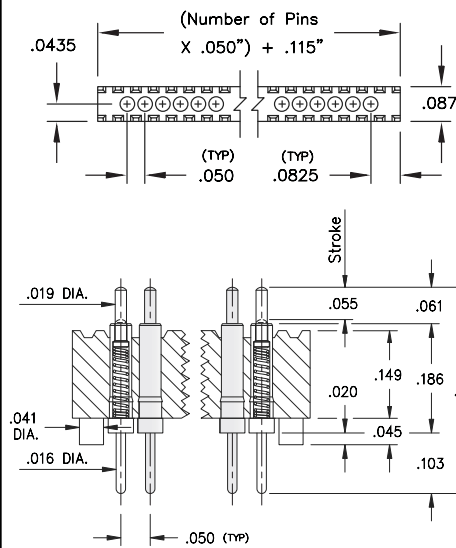




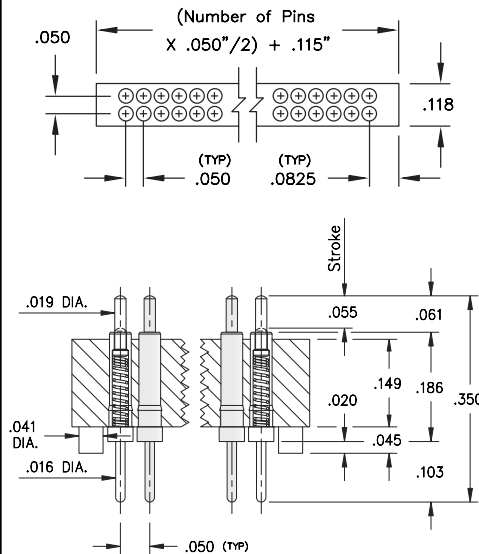
- Modular contacts for use on .050" grid, supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .0275" mid stroke & .055" max stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 854 & 855 series contact strips are designed for manual placement into  $\varnothing .023 \pm .003$ " plated-through-holes in the circuit board.



**Single Row Series 854**



**Double Row Series 855**



**Ordering Information**

**Series 854 Single Row Through Hole Mount**

854-22-0\_\_-10-001101

Specify # of pins → 02-20

**Series 855 Double Row Through Hole Mount**

855-22-0\_\_-10-001101

Specify # of pins → 04-40

*For Electrical, Mechanical & Environmental Data, See pg. 4.1*

*For RoHS compliance select  $\diamond$  plating code.*

**Technical Specifications**

**Materials:**

Contact piston & Base: Machined copper alloy plated 20 $\mu$ " gold over 100 $\mu$ " nickel.  
 Spring: Beryllium copper plated 10 $\mu$ " gold  
 Insulator: High temp. thermoplastic rated UL94 V-0

**Mechanical:**

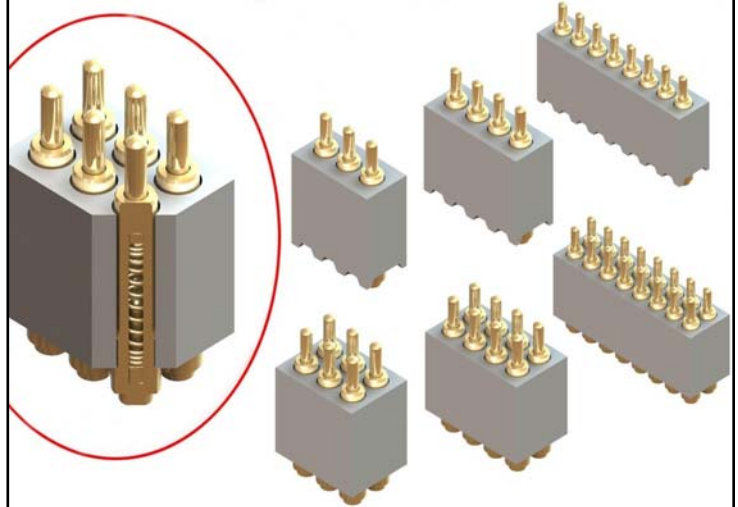
Spring force @ initial height (A): 25 grams  
 Spring force @ mid stroke (B/2): 60 grams  
 Durability: 1,000,000 cycles min.

**Electrical:**

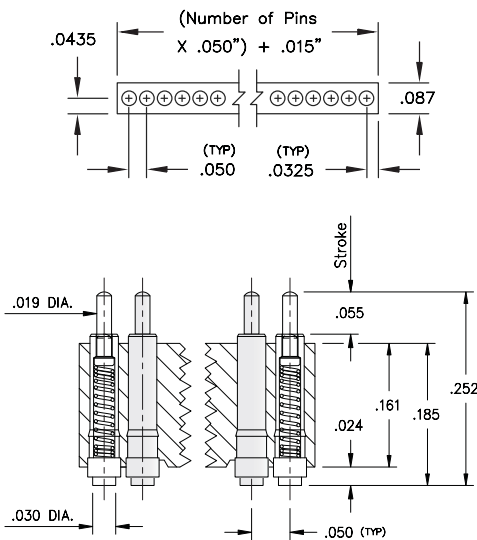
Voltage rating: 100Vrms/150Vdc  
 Current rating: 2A (continuous), 3A (peak) per contact  
 Contact resistance: 20m $\Omega$  max.  
 Insulation resistance: 10,000M $\Omega$  min.  
 Dielectric strength: 700Vrms min.  
 Capacitance: 1pF max.



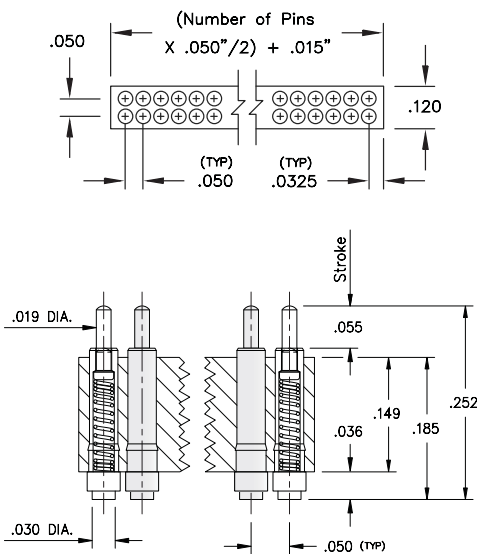
- Modular contacts for use on .050" grid, supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .0275" mid stroke & .055" max stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 854 & 855 series contact strips are designed for manual placement onto .040" Ø solder pads.



**Single Row Series 854**



**Double Row Series 855**



**Ordering Information**

**Series 854** **Single Row Surface Mount**

854-22-0\_\_-30-001101

Specify # of pins → 02-20

**Series 855** **Double Row Surface Mount**

855-22-0\_\_-30-001101

Specify # of pins → 04-40

*For Electrical, Mechanical & Environmental Data, See pg. 4.1*

*For RoHS compliance select plating code.*

**Technical Specifications**

**Materials:**

Contact piston & Base: Machined copper alloy plated 20µ" gold over 100µ" nickel.  
 Spring: Beryllium copper plated 10µ" gold  
 Insulator: High temp. thermoplastic rated UL94 V-0

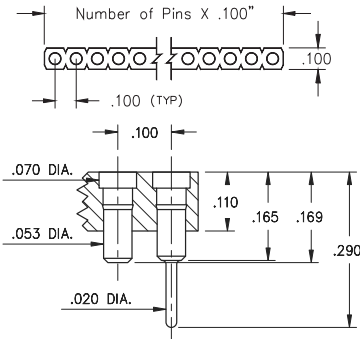
**Mechanical:**

Spring force @ initial height (A): 25 grams  
 Spring force @ mid stroke (B/2): 60 grams  
 Durability: 1,000,000 cycles min.

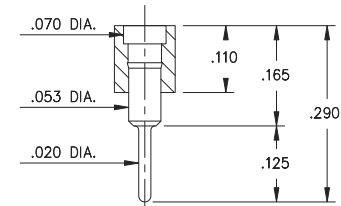
**Electrical:**

Voltage rating: 100Vrms/150Vdc  
 Current rating: 2A (continuous), 3A (peak) per contact  
 Contact resistance: 20mΩ max.  
 Insulation resistance: 10,000MΩ min.  
 Dielectric strength: 700Vrms min.  
 Capacitance: 1pF max.

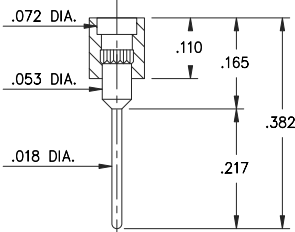




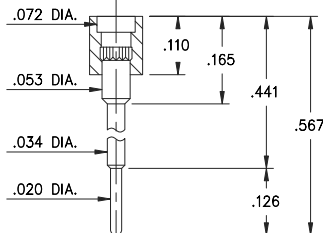
**Fig. 1**



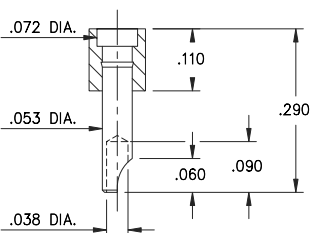
**Fig. 2**



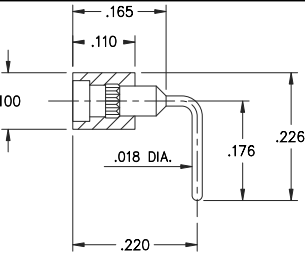
**Fig. 3**



**Fig. 4**

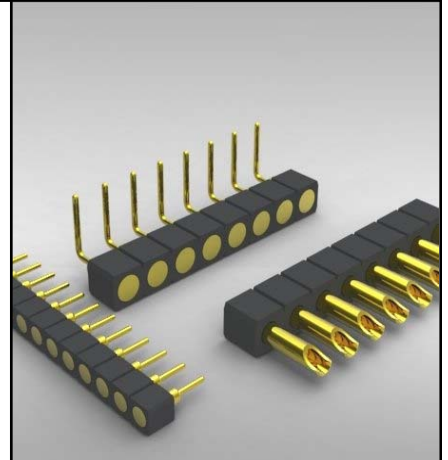


**Fig. 5**



**Fig. 6**

- Series 319, 330 and 399 single row strips may be cut to any length.
- Spring Target connectors present a large flat surface for making tangent connections to our standard .042" dia spring pin plungers. The target connectors provide an excellent gold plated conductive path back to the board mounted spring pin connector.
- Target connectors use MM #1938, #1940, #1941, #1942 and #3024 pins. See page 185 for details.
- Insulators are high temp. thermoplastic.



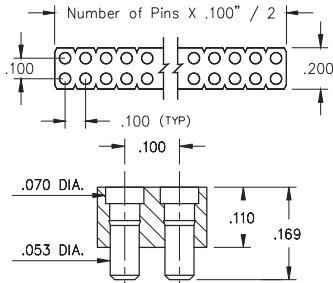
**Ordering Information**

<b>Fig. 1</b>	<b>Series 319...041</b> <b>SMT w/ Alignment Pins</b>
	319-10-1__-30-041000 Specify # of pins      →      01-64
<b>Fig. 2</b>	<b>Series 319...001</b> <b>Standard Solder Tails</b>
	319-10-1__-00-001000 Specify # of pins      →      01-64
<b>Fig. 3</b>	<b>Series 319...002</b> <b>Long Solder Tails</b>
	319-10-1__-00-002000 Specify # of pins      →      01-64
<b>Fig. 4</b>	<b>Series 319...005</b> <b>Elevated Solder Tails</b>
	319-10-1__-00-005000 Specify # of pins      →      01-64
<b>Fig. 5</b>	<b>Series 330...240</b> <b>Solder Cups</b>
	330-10-1__-10-240000 Specify # of pins      →      01-64
<b>Fig. 6</b>	<b>Series 399...008</b> <b>Right Angle Solder Tails</b>
	399-10-1__-10-008000 Specify # of pins      →      01-64

*For Electrical, Mechanical & Environmental Data, See pg. 4*



PLATING CODE =	<b>10</b>		
Pin Plating	10 μ" Au		



Coplanarity .005". For Pin Counts >20 positions consult Technical Support.

Fig. 1

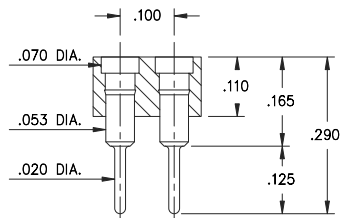


Fig. 2

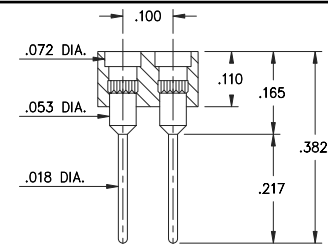


Fig. 3

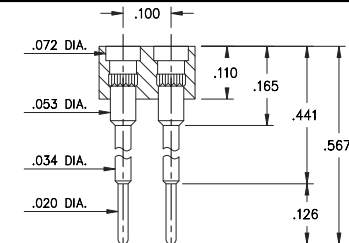


Fig. 4

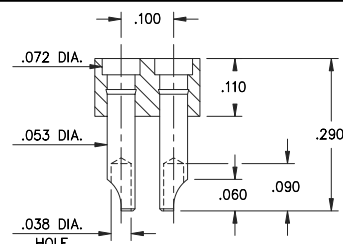


Fig. 5

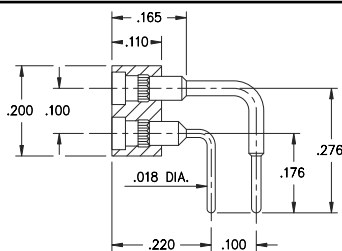
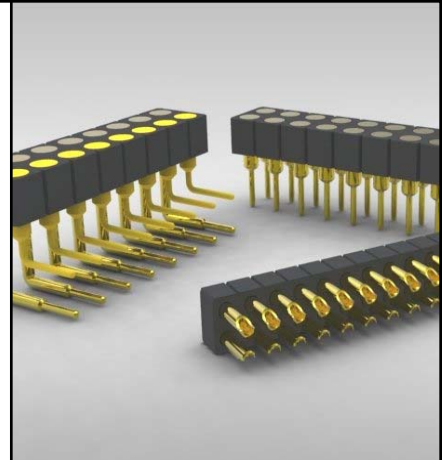


Fig. 6

- Series 419, 430 and 499 double row strips may be cut to any length.
- Spring Target connectors present a large flat surface for making tangent connections to our standard .042" dia spring pin plungers. The target connectors provide an excellent gold plated conductive path back to the board mounted spring pin connector.
- Target connectors use MM #1938, #1940, #1941, #1942 and #3024 pins. See page 185 for details.
- Insulators are high temp. thermoplastic.



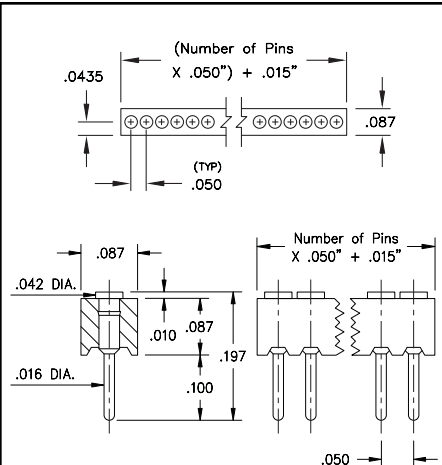
Ordering Information

Fig. 1	Series 419...041	Surface Mount
	419-10-2__-30-041000	Specify # of pins → 04-64
Fig. 2	Series 419...001	Standard Solder Tails
	419-10-2__-00-001000	Specify # of pins → 04-64
Fig. 3	Series 419...002	Long Solder Tails
	419-10-2__-00-002000	Specify # of pins → 04-64
Fig. 4	Series 419...005	Elevated Solder Tails
	419-10-2__-00-005000	Specify # of pins → 04-64
Fig. 5	Series 430...240	Solder Cups
	430-10-2__-10-240000	Specify # of pins → 04-64
Fig. 6	Series 499...008	Right Angle Solder Tails
	499-10-2__-10-008000	Specify # of pins → 04-64

For Electrical, Mechanical & Environmental Data, See pg. 4

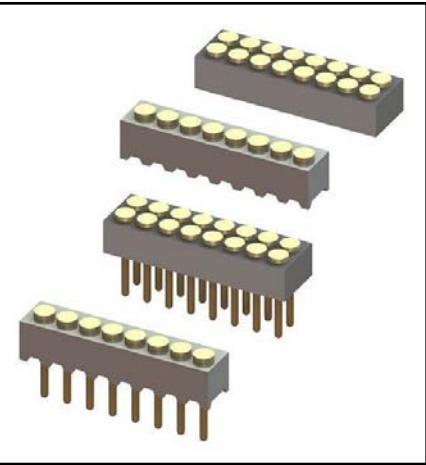


PLATING CODE =	10		
Pin Plating	10 μ" Au		

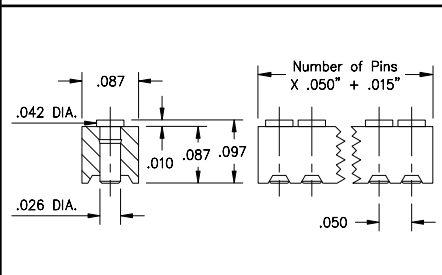


**Fig. 1**

- Series 856, 857 single and double row strips may be cut to any length.
- Spring Target connectors present a large flat surface for making tangent connections to our standard .019" dia spring pin plungers. The target connectors provide an excellent gold plated conductive path back to the board mounted spring pin connector.
- Target connectors use MM #1933 and #1935 pins. See page 180 for details.
- Insulators are high temp. thermoplastic.



**Ordering Information**



**Fig. 2**

Coplanarity .005". For Pin Counts >20 positions consult Technical Support.

**Fig. 1**

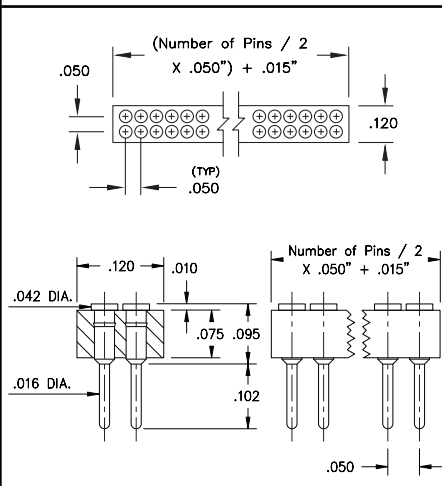
**Series 856...051      Standard Solder Tails**

856-10-0\_\_-10-051000  
Specify # of pins      ↳      01-20

**Fig. 2**

**Series 856...051      Surface Mount**

856-10-0\_\_-30-051000  
Specify # of pins      ↳      02-20



**Fig. 3**

**Fig. 3**

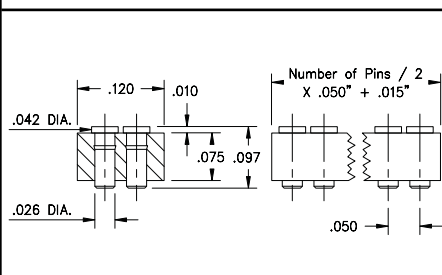
**Series 857...051      Standard Solder Tails**

857-10-0\_\_-10-051000  
Specify # of pins      ↳      04-40

**Fig. 4**

**Series 857...051      Surface Mount**

857-10-0\_\_-30-051000  
Specify # of pins      ↳      04-40



**Fig. 4**

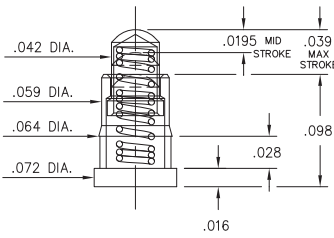
Coplanarity .005". For Pin Counts >40 positions consult Technical Support.

*For Electrical,  
Mechanical & Environmental  
Data, See pg. 4*



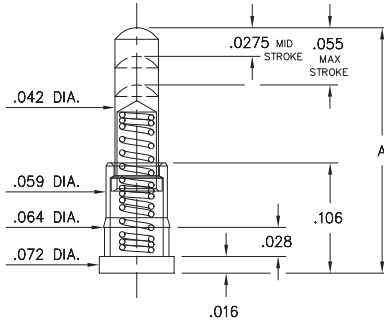
PLATING CODE =	<b>10</b>		
Pin Plating	10 μ" Au		

**0900-0**



**0900-0-00-00-00-00-11-0**  
Short Stroke, Surface mount  
Lowest profile

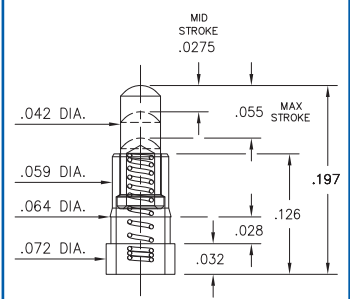
**0900-1⇒4**



**0900-X-00-00-00-00-11-0**  
Standard Stroke, Surface mount  
Low profile

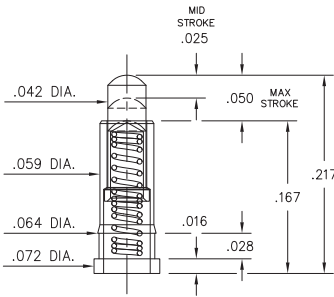
Basic Part Number	Length A
0900-1	.177
0900-2	.197
0900-3	.217
0900-4	.236

**0934**



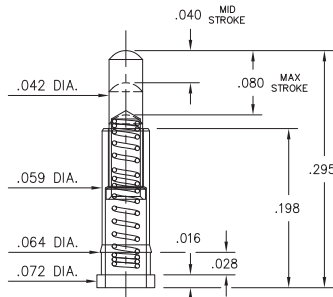
**0934-0-15-20-74-14-26-0**  
Standard Stroke  
Surface mount

**0936**



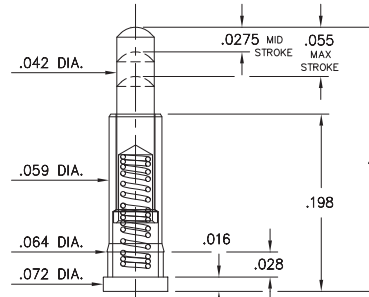
**0936-0-15-20-75-14-11-0**  
Standard Stroke  
Surface mount

**0928**



**0928-0-15-20-77-14-11-0**  
Long Stroke  
Surface mount

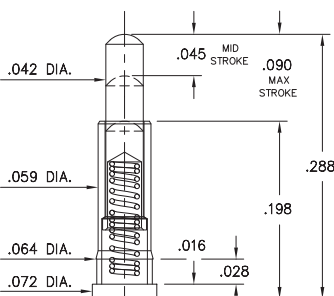
**0907-0⇒9**



**0907-X-15-20-75-14-11-0**  
Standard Stroke, Surface mount  
High profile

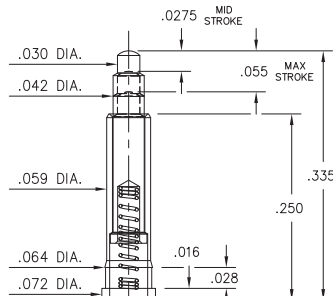
Basic Part Number	Length A
0907-0	.255
0907-1	.275
0907-2	.295
0907-3	.315
0907-4	.335
0907-5	.350
0907-6	.370
0907-7	.390
0907-8	.410
0907-9	.430

**0913**



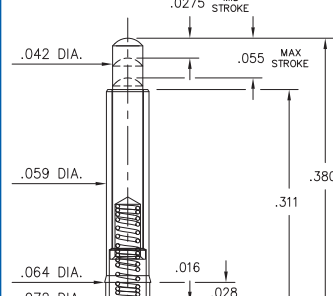
**0913-0-15-20-77-14-11-0**  
Long Stroke  
Surface mount

**0925**



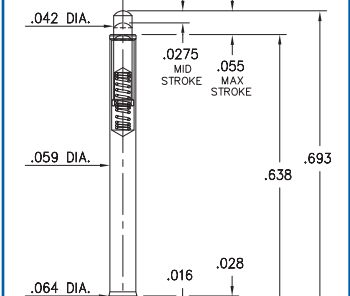
**0925-0-15-20-73-14-26-0**  
Standard Stroke  
Surface mount

**0927**



**0927-0-15-20-75-14-11-0**  
Standard Stroke  
Surface mount

**0905**



**0905-0-00-00-00-00-11-0**  
Standard Stroke, Surface mount  
Highest profile

**ORDER CODE: 09XX - X - 15 - 20 - 7X - 14 - XX - 0**

Spring Number

**MATERIAL SPECIFICATIONS:**

- SLEEVE & PLUNGER MATERIAL:** Copper Alloy
- SPRING MATERIAL:** Beryllium Copper
- SLEEVE & PLUNGER FINISH:** 20 μm Gold over Nickel
- SPRING FINISH:** 10 μm Gold over Nickel
- DIMENSION IN INCHES:**
- TOLERANCES ON:** LENGTHS: ±.006  
DIAMETERS: ±.002  
ANGLES: ± 2°



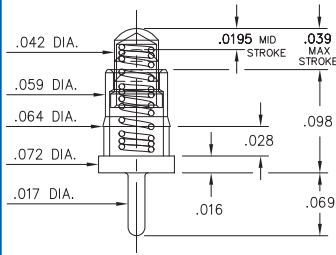
**MECHANICAL & ELECTRICAL SPECIFICATIONS:**

- DURABILITY:** 1,000,000 cycles
- CURRENT RATING:** 2A continuous, 3A peak
- CONTACT RESISTANCE:** 20 mΩ max.

SPRING NUMBER	Mid. STROKE	Max. STROKE	FORCE @ Mid. Stroke	Initial Force (Pre-load)
73	.0275	.055	60 g	25 g
74	.0275	.055	50 g	15 g
75	.0275	.055	60 g	25 g
77	.045	.090	60 g	25 g

73, 74, 75, 77 Springs are not Interchangeable

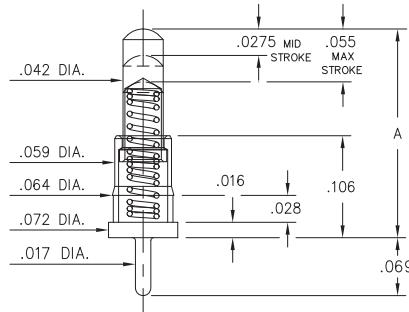
**0906-0**



**0906-0-15-20-76-14-11-0**  
Short Stroke

Solder mount in .018 min. mounting hole

**0906-1⇒4**

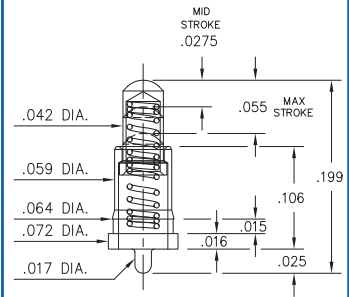


**0906-X-15-20-75-14-11-0**  
Standard Stroke

Solder mount in .018 min. mounting hole

Basic Part Number	Length A
0906-1	.177
0906-2	.197
0906-3	.217
0906-4	.236

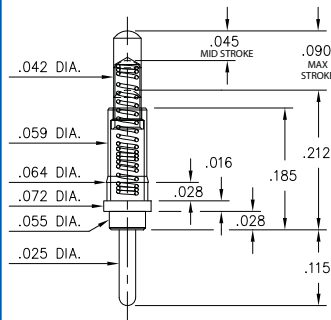
**0930**



**0930-0-15-20-75-14-11-0**  
Standard Stroke

Solder Mount in .018 min. mounting hole

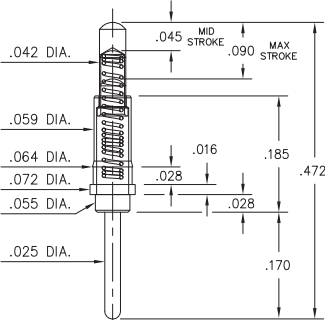
**0914**



**0914-0-15-20-77-14-11-0**  
Long Stroke

Solder mount in .027 min. mounting hole

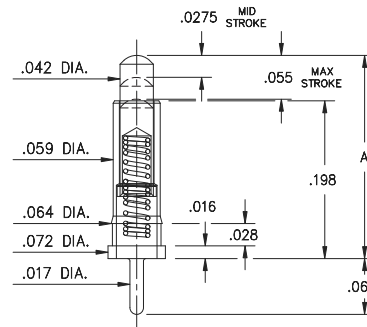
**0932**



**0932-0-15-20-77-14-11-0**  
Long Stroke

Solder Mount in .027 min. mounting hole

**0908-0⇒9**

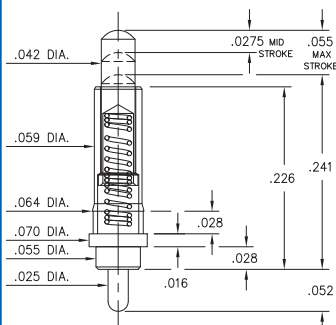


**0908-X-15-20-75-14-11-0**  
Standard Stroke

Solder mount in .018 min. mounting hole

Basic Part Number	Length A
0908-0	.255
0908-1	.275
0908-2	.295
0908-3	.315
0908-4	.335
0908-5	.350
0908-6	.370
0908-7	.390
0908-8	.410
0908-9	.430

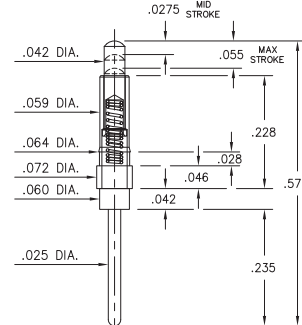
**0901**



**0901-0-00-00-00-00-11-0**  
Standard Stroke

Solder mount in .027 min. mounting hole

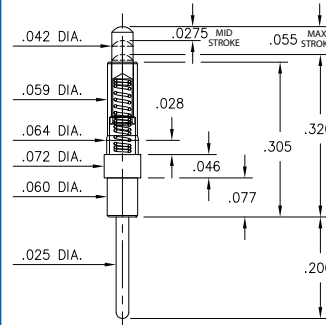
**0929**



**0929-0-15-20-75-14-11-0**  
Standard Stroke

Solder Mount in .027 min. mounting Hole

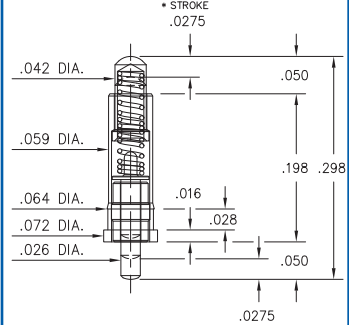
**0922**



**0922-0-15-20-75-14-11-0**  
Standard Stroke

Solder mount in .027 min. mounting hole

**0980**



**0980-0-15-20-75-14-11-0**  
Double action, \*.055 Combined Stroke

Mount between parallel circuit boards

**ORDER CODE: 09XX - X - 15 - 20 - 7X - 14 - 11 - 0**

Spring Number

**MATERIAL SPECIFICATIONS:**

- SLEEVE & PLUNGER MATERIAL:** Copper Alloy
- SPRING MATERIAL:** Beryllium Copper
- SLEEVE & PLUNGER FINISH:** 20 μ" Gold over Nickel
- SPRING FINISH:** 10 μ" Gold over Nickel
- DIMENSION IN INCHES:**
- TOLERANCES ON:** LENGTHS: ±.006  
DIAMETERS: ±.002  
ANGLES: ± 2°



**MECHANICAL & ELECTRICAL SPECIFICATIONS:**

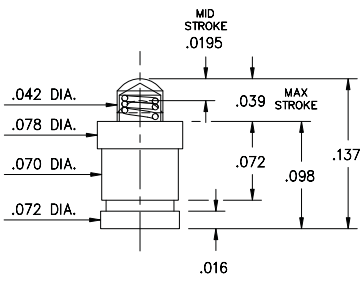
- DURABILITY:** 1,000,000 cycles
- CURRENT RATING:** 2A continuous, 3A peak
- CONTACT RESISTANCE:** 20 mΩ max.

SPRING NUMBER	Mid. STROKE	Max. STROKE	FORCE @ Mid. Stroke	Initial Force (Pre-load)
75	.0275	.055	60 g	25 g
76	.0195	.039	60 g	25 g
77	.045	.090	60 g	25 g

75, 76, 77 Springs are not Interchangeable

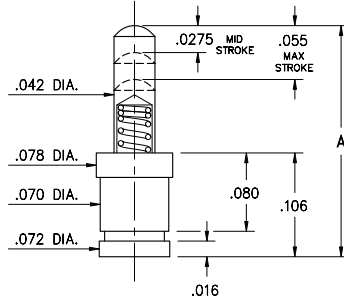
**0910-0**

**0910-1⇒4**



**0910-0-57-20-76-14-11-0**

Short Stroke, Surface mount  
Packaged on 16mm wide carrier  
tape: 1,500 parts per 13" reel.



**0910-X-57-20-75-14-11-0**

Standard Stroke, Surface mount  
Packaged on carrier tape.  
See chart for tape width and qty. per reel

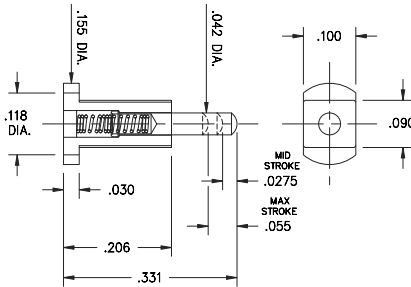


Basic Part Number	Length A
0910-1	.177
0910-2	.197
0910-3	.217
0910-4	.236

Basic Part Number	Tape Width	Quantity per Reel
0910-1	16mm	1,500
0910-2	24mm	1,100
0910-3	24mm	1,100
0910-4	24mm	1,100

**0967**

**0990-0**

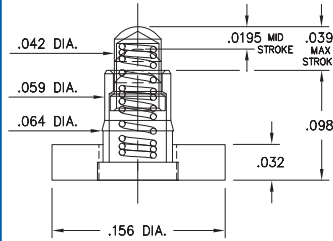
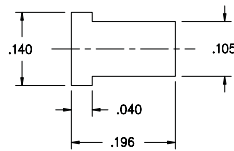


**0967-0-15-20-75-14-11-0**

Standard Stroke, Horizontal Surface mount  
Also available on 16mm wide carrier  
tape: 2,200 parts per 13" reel.  
Order as: 0967-0-58-20-75-14-11-0



P.C.B. Layout

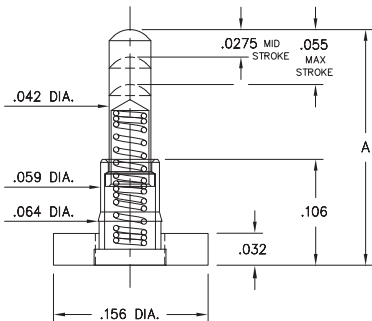


**0990-0-50-20-76-14-11-0**

Short Stroke, Surface mount  
Large Base

**0990-1⇒4**

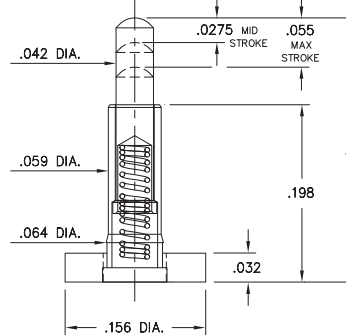
**0997-0⇒9**



Basic Part Number	Length A
0990-1	.177
0990-2	.197
0990-3	.217
0990-4	.236

**0990-X-50-20-75-14-11-0**

Standard Stroke, Surface mount  
Large Base



Basic Part Number	Length A
0997-0	.255
0997-1	.275
0997-2	.295
0997-3	.315
0997-4	.335
0997-5	.350
0997-6	.370
0997-7	.390
0997-8	.410
0997-9	.430

**0997-X-50-20-75-14-11-0**

Standard Stroke, Surface mount  
Large Base

**ORDER CODE: 09XX - X - XX - 20 - 7X - 14 - 11 - 0**

Spring Number ↗

**MATERIAL SPECIFICATIONS:**

- SLEEVE & PLUNGER MATERIAL: Copper Alloy
- SPRING MATERIAL: Beryllium Copper
- SLEEVE & PLUNGER FINISH: 20 μ" Gold over Nickel
- SPRING FINISH: 10 μ" Gold over Nickel
- DIMENSION IN INCHES:
- TOLERANCES ON: LENGTHS: ±.006  
DIAMETERS: ±.002  
ANGLES: ± 2°



**MECHANICAL & ELECTRICAL SPECIFICATIONS:**

- DURABILITY: 1,000,000 cycles
- CURRENT RATING: 2A continuous, 3A peak
- CONTACT RESISTANCE: 20 mΩ max.

SPRING NUMBER	Mid. STROKE	Max. STROKE	FORCE @ Mid. Stroke	Initial Force (Pre-load)
75	.0275	.055	60 g	25 g
76	.0195	.039	60 g	25 g

75 & 76 Springs are not Interchangeable



0950	0951	0933	0962
<p><b>0950-0-15-20-71-14-11-0</b> Standard Stroke Solder Mount in .018 min. mounting hole</p>	<p><b>0951-0-15-20-71-14-11-0</b> Standard Stroke, Surface mount High profile</p>	<p><b>0933-0-15-20-75-14-11-0</b> Standard Stroke, SolderCup For Wire Termination</p>	<p><b>0962-0-15-20-75-14-11-0</b> Standard Stroke, Crimp Barrel For Wire Termination</p>

--	--	--	--

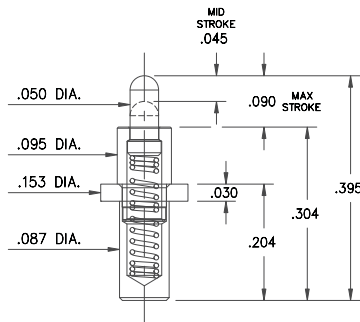
--	--	--	--

<p><b>ORDER CODE: 09XX - X - 15 - 20 - 7X - 14 - 11 - 0</b></p> <p style="text-align: center;">Spring Number </p> <p><b>MATERIAL SPECIFICATIONS:</b></p> <p><b>SLEEVE &amp; PLUNGER MATERIAL:</b> Copper Alloy  <b>SPRING MATERIAL:</b> Beryllium Copper  <b>SLEEVE &amp; PLUNGER FINISH:</b> 20 μ" Gold over Nickel  <b>SPRING FINISH:</b> 10 μ" Gold over Nickel  <b>DIMENSION IN INCHES:</b>  <b>TOLERANCES ON:</b> LENGTHS: ±.006  DIAMETERS: ±.002  ANGLES: ± 2°</p>	<p><b>MECHANICAL &amp; ELECTRICAL SPECIFICATIONS:</b></p> <p><b>DURABILITY:</b> 1,000,000 cycles  <b>CURRENT RATING:</b> 2A continuous, 3A peak  <b>CONTACT RESISTANCE:</b> 20 mΩ max.</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>SPRING NUMBER</th> <th>Mid. STROKE</th> <th>Max. STROKE</th> <th>FORCE @ Mid. Stroke</th> <th>Initial Force (Pre-load)</th> </tr> </thead> <tbody> <tr> <td>71</td> <td>.0275</td> <td>.055</td> <td>50 g</td> <td>15 g</td> </tr> <tr> <td>75</td> <td>.0275</td> <td>.055</td> <td>60 g</td> <td>25 g</td> </tr> </tbody> </table> <p style="text-align: center;"><b>Springs are not Interchangeable</b></p>	SPRING NUMBER	Mid. STROKE	Max. STROKE	FORCE @ Mid. Stroke	Initial Force (Pre-load)	71	.0275	.055	50 g	15 g	75	.0275	.055	60 g	25 g
SPRING NUMBER	Mid. STROKE	Max. STROKE	FORCE @ Mid. Stroke	Initial Force (Pre-load)												
71	.0275	.055	50 g	15 g												
75	.0275	.055	60 g	25 g												



**0850**

**0852**



**Specifications for #0850-0 & #0852-0:**

**Material:**

- Sleeve & Plunger Material: Copper Alloy
- Spring Material: Stainless Steel 302.

**Mechanical Characteristics:**

- Force @ mid-stroke (.045") = 120 grams
- Maximum stroke length = .090"
- Mechanical life: 1,000,000 cycles

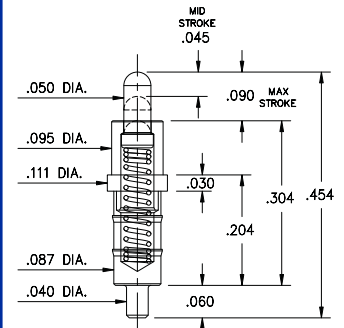
**Electrical Characteristics:**

- Rated Current (Free air): Continuous 9 amps @ 10° C temperature rise.

**0850-0-15-20-83-14-11-0**

Power Spring Pin

Solder Mount in .090 min. mounting hole



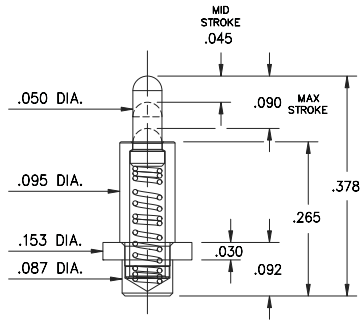
**0852-0-15-20-83-14-11-0**

Power Spring Pin

Solder Mount in .043 min. mounting hole

**0851**

**0853**



**Specifications for #0851-0 & #0853-0:**

**Material:**

- Sleeve & Plunger Material: Copper Alloy
- Spring Material: Stainless Steel 302.

**Mechanical Characteristics:**

- Force @ mid-stroke (.045") = 120 grams
- Maximum stroke length = .090"
- Mechanical life: 1,000,000 cycles

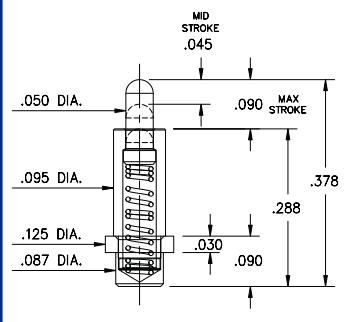
**Electrical Characteristics:**

- Rated Current (Free air): Continuous 9 amps @ 10° C temperature rise.

**0851-0-15-20-82-14-11-0**

Power Spring Pin

Solder Mount in .090 min. mounting hole



**0853-0-15-20-82-14-11-0**

Power Spring Pin

Solder Mount in .090 min. mounting hole

**ORDER CODE: 085X - X - 15 - 20 - 8X - 14 - 11 - 0**

Spring Number

**MATERIAL SPECIFICATIONS:**

- SLEEVE & PLUNGER MATERIAL:** Copper Alloy
- SPRING MATERIAL:** Stainless Steel 302
- SLEEVE & PLUNGER FINISH:** 20 μ" Gold over Nickel
- SPRING FINISH:** 10 μ" Gold over Nickel
- DIMENSION IN INCHES:**
- TOLERANCES ON:** LENGTHS: ±.006  
DIAMETERS: ±.002  
ANGLES: ± 2°



**MECHANICAL & ELECTRICAL SPECIFICATIONS:**

- DURABILITY:** 1,000,000 cycles
- Rated Current (Free air):** Continuous 9 amps @ 10° C temperature rise
- CONTACT RESISTANCE:** 20 mΩ max.

SPRING NUMBER	Mid. STROKE	Max. STROKE	FORCE @ Mid. Stroke	Initial Force (Pre-load)
82	.045	.090	120 g	25 g
83	.045	.090	120 g	25 g

**82 & 83 Springs are not Interchangeable**

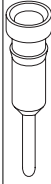
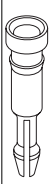











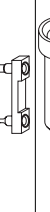


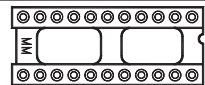
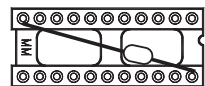
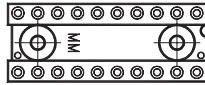


## DIP SOCKETS, CARRIERS AND HEADERS QUICK SELECTOR CHART

**USE THIS CONVENIENT CHART TO SELECT THE RIGHT DIP PRODUCT FOR YOUR APPLICATION.**

- 1) Determine the style of pin needed to meet your requirement.
- 2) Select the appropriate insulator frame and grid spacing.
- 3) Turn to indicated page for detail and ordering information.
- 4) \* denotes pins that Mill-Max will custom assemble in a selected insulator. Contact our applications engineers for further information.




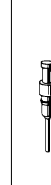


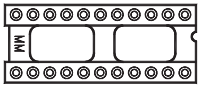
### DUAL-IN-LINE SOCKETS AND CARRIERS

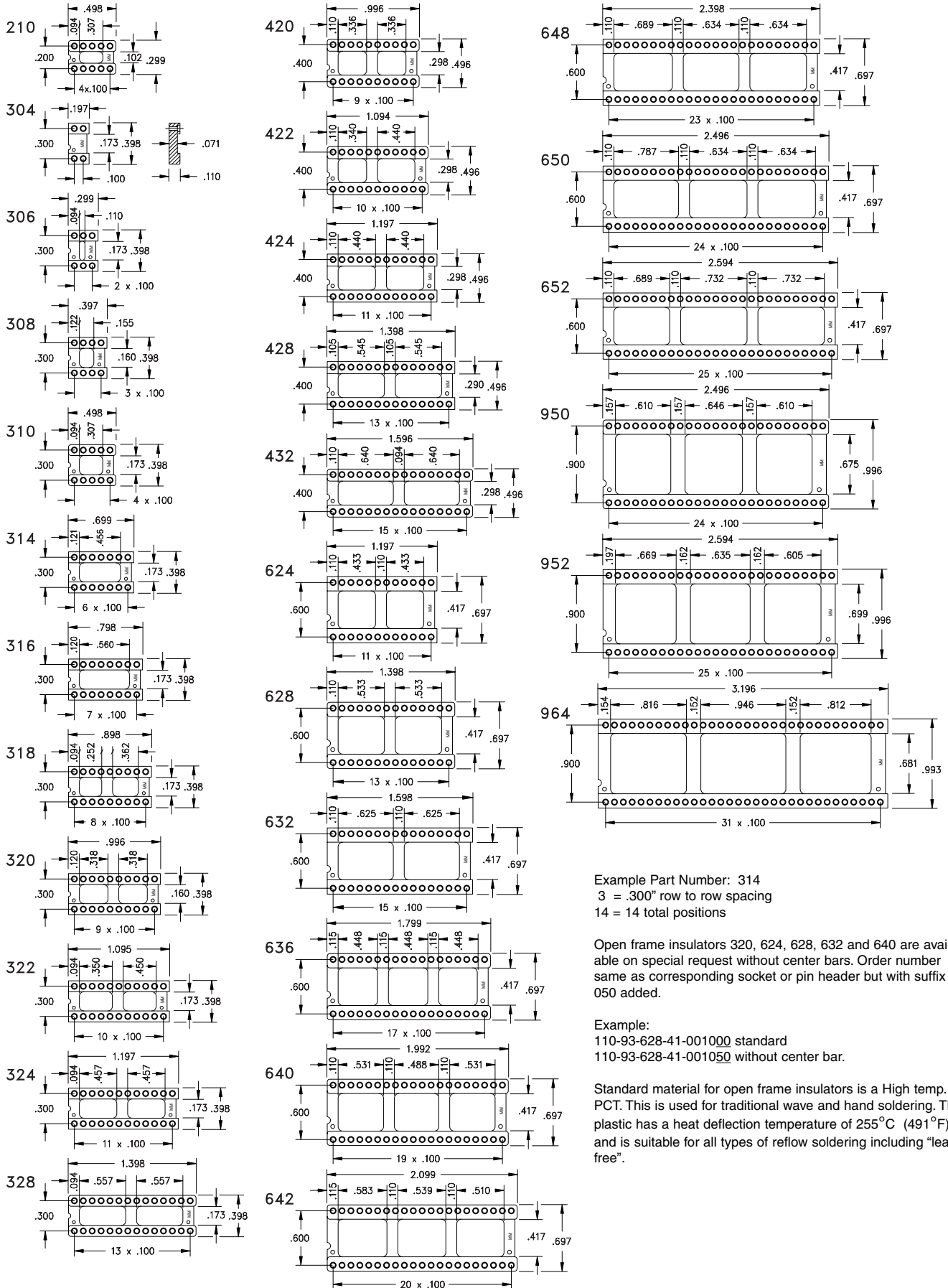
		SELECT PIN →															
		Standard Solder Tail	Cinch Pin	Long Solder Tail	Very Low Profile	Ultra Low Profile	Auto-Insertion	Solderless Press-Fit	Surface Mount		1-4 Level Wrapost	Pluggable Wrapost	Elevated	Right Angle	Socket Carriers		
SELECT INSULATOR ↓		TURN TO PAGE # ↓															
																	
	<b>OPEN FRAME DIP</b>	22 32	27	23	24	25	26	28 29	36	38 39	41	42	43		44	45 46	47
	<b>CAPACITOR DIP</b>	30									30						
	<b>CLOSED FRAME DIP</b>	31 33		*	*		*	*	37	40	31 34	*	*	61	*	*	*

For Shrink DIP Sockets (on .070" grid), see page 57 - 60

For Technical Specifications, see page 4.

### DUAL-IN-LINE HEADERS

		SELECT PIN →					
		.018 Dia. Solder Tail & Wrapost	Slotted Head Solder Tail & Wrapost	Turret Head Solder Tail & Wrapost	Solder Cup Solder Tail & Wrapost	Elevated Pin to Pin	Gull Wing Surface Mount
SELECT INSULATOR ↓		TURN TO PAGE # ↓					
							
	<b>OPEN FRAME DIP</b>	48	49	50	51	52 53 54 55	56



Example Part Number: 314  
 3 = .300" row to row spacing  
 14 = 14 total positions

Open frame insulators 320, 624, 628, 632 and 640 are available on special request without center bars. Order number same as corresponding socket or pin header but with suffix 050 added.

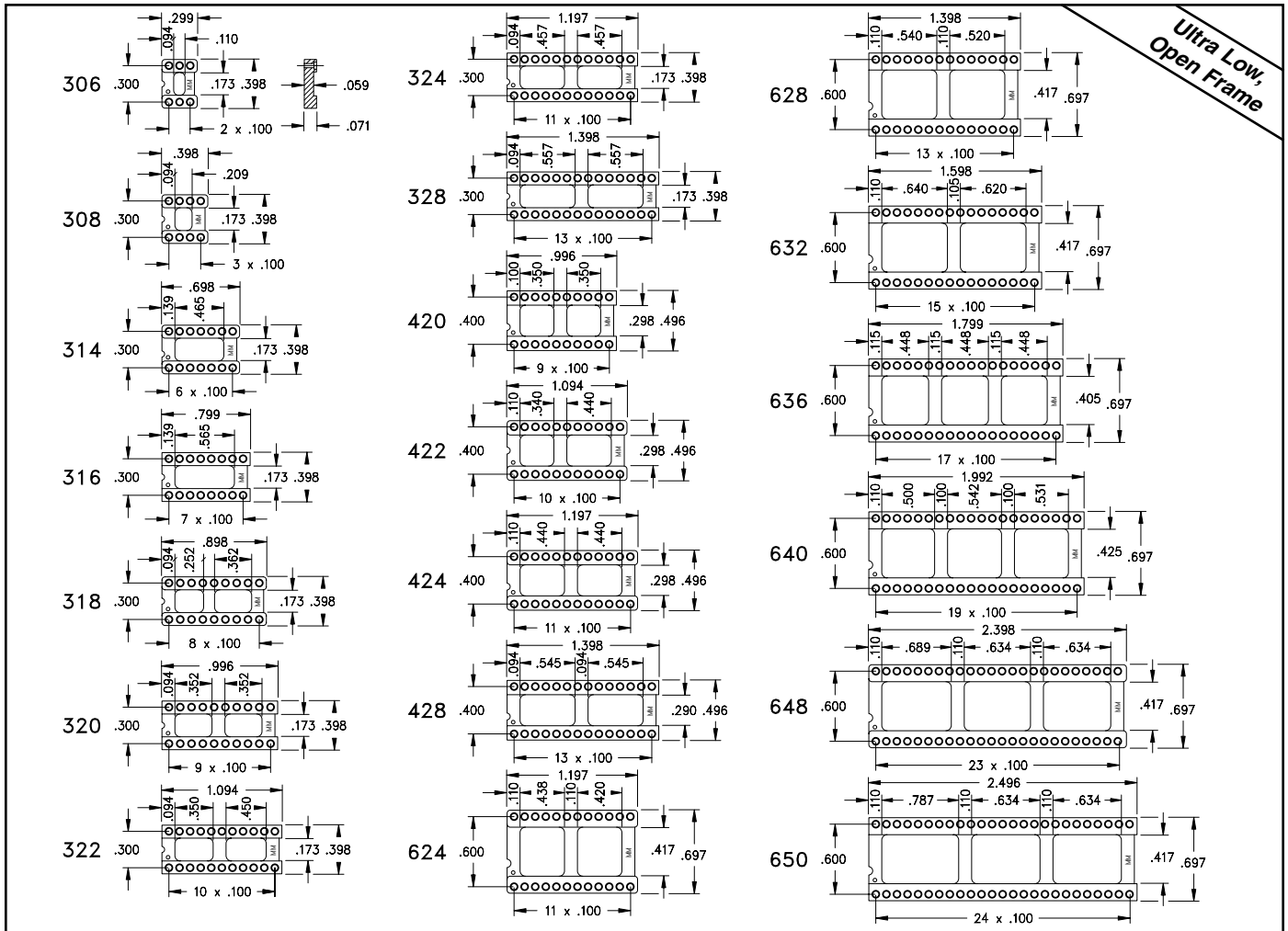
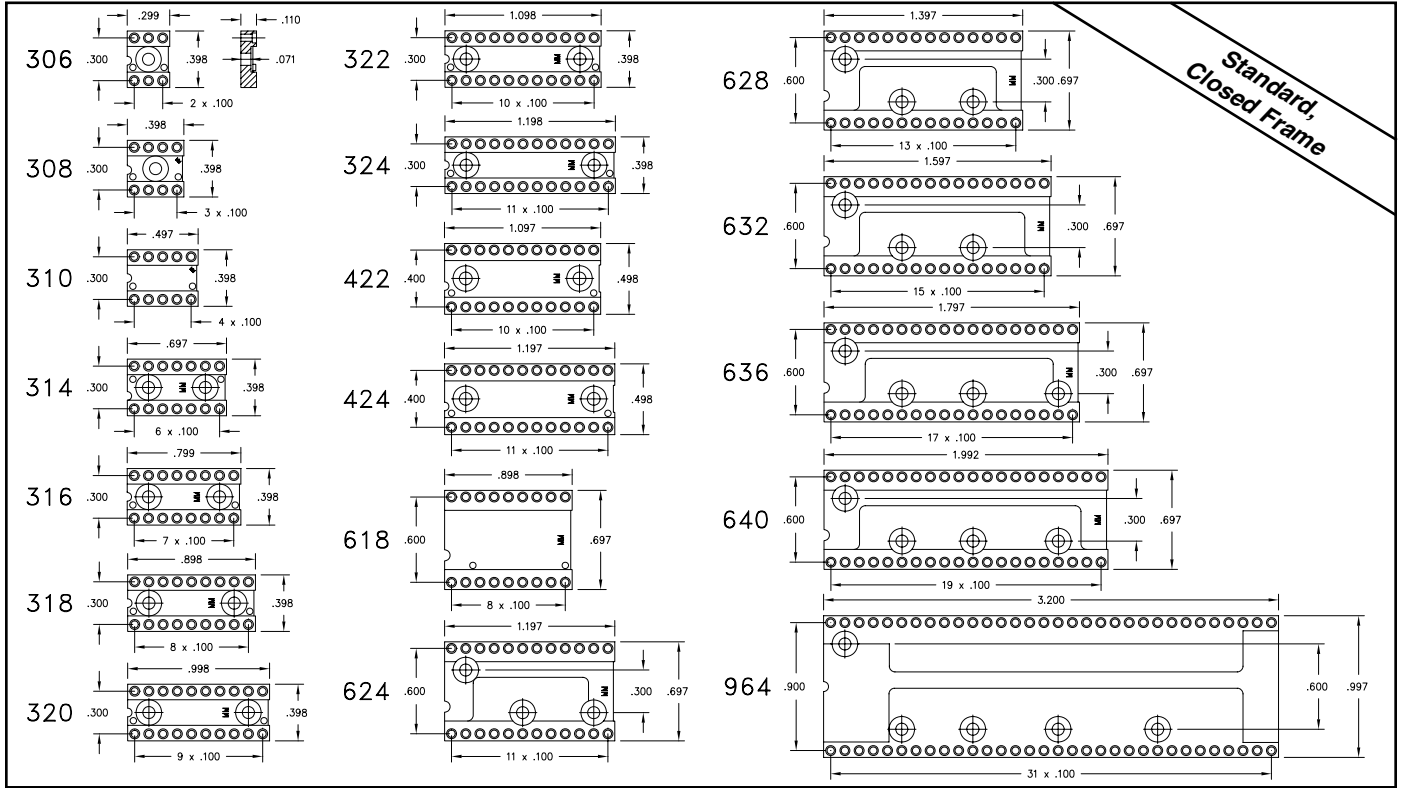
Example:  
 110-93-628-41-001000 standard  
 110-93-628-41-001050 without center bar.

Standard material for open frame insulators is a High temp. PCT. This is used for traditional wave and hand soldering. This plastic has a heat deflection temperature of 255°C (491°F) and is suitable for all types of reflow soldering including "lead-free".



## DUAL-IN-LINE INSULATORS

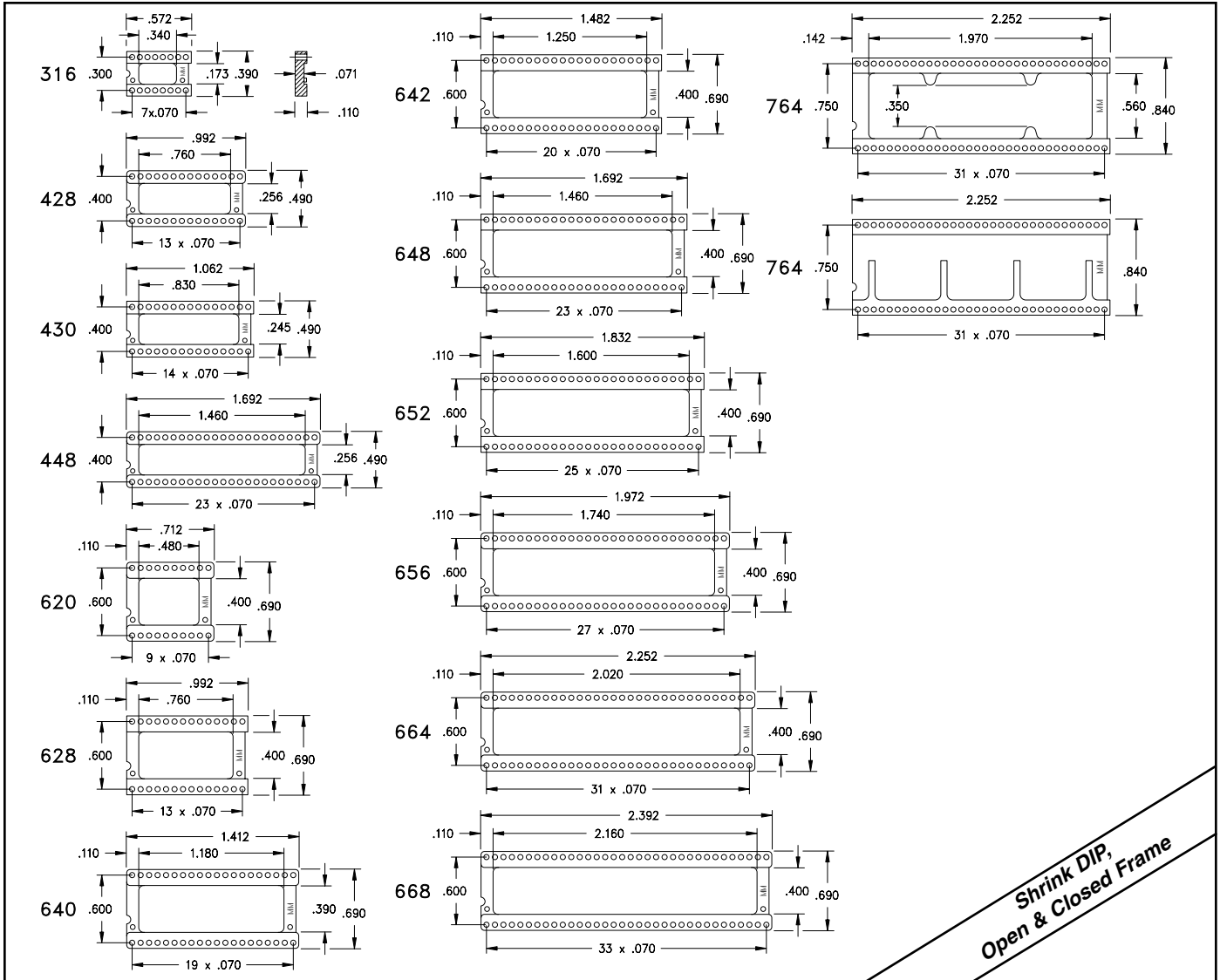
Standard, Closed Frame  
Ultra Low Profile, Open Frame



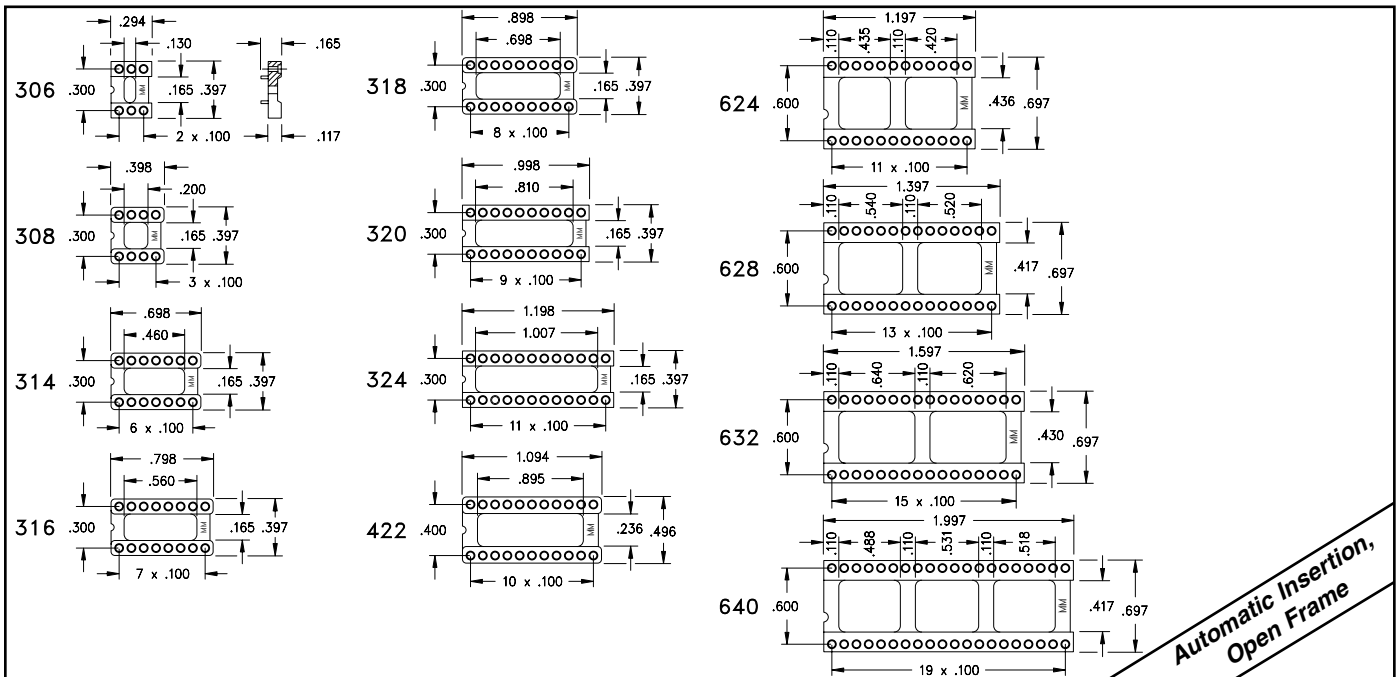


# DUAL-IN-LINE INSULATORS

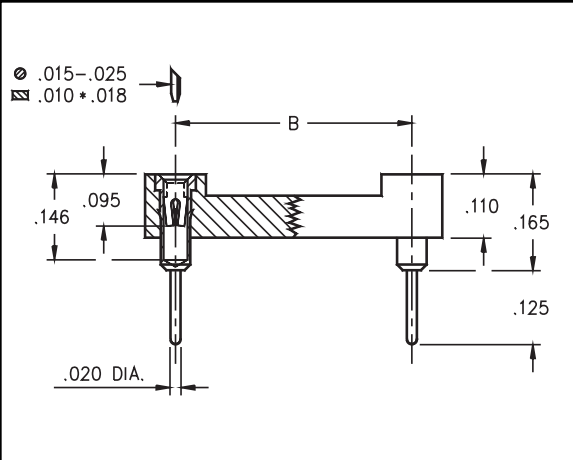
Shrink DIP, Open and Closed Frame  
Automatic Insertion, Open Frame



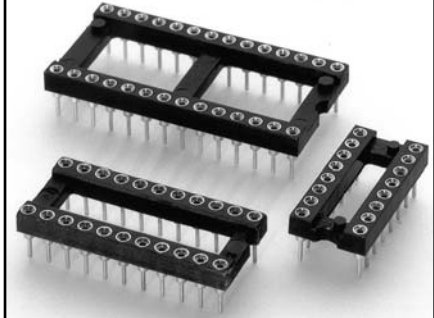
Shrink DIP,  
Open & Closed Frame



Automatic Insertion,  
Open Frame



- All DIP sockets accept .015" - .025" diameter & standard IC leads.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 110 sockets use MM #1001 pins. See page 136 for details.
- Insulators are high temp. thermoplastic.



Total number of pins	Pin Spacing			Quantity per tube	Ordering Information
	A	B	C		

Total number of pins	Pin Spacing			Quantity per tube	Ordering Information
	A	B	C		
10	0.5	0.2	0.3	40	110-XX-210-41-001000
4	0.2	0.3	0.4	102	110-XX-304-41-001000
6	0.3	0.3	0.4	67	110-XX-306-41-001000
8	0.4	0.3	0.4	50	110-XX-308-41-001000
10	0.5	0.3	0.4	40	110-XX-310-41-001000
14	0.7	0.3	0.4	28	110-XX-314-41-001000
16	0.8	0.3	0.4	25	110-XX-316-41-001000
18	0.9	0.3	0.4	22	110-XX-318-41-001000
20	1.0	0.3	0.4	20	110-XX-320-41-001000
22	1.1	0.3	0.4	18	110-XX-322-41-001000
24	1.2	0.3	0.4	16	110-XX-324-41-001000
28	1.4	0.3	0.4	14	110-XX-328-41-001000
20	1.0	0.4	0.5	20	110-XX-420-41-001000
22	1.1	0.4	0.5	18	110-XX-422-41-001000
24	1.2	0.4	0.5	16	110-XX-424-41-001000
28	1.4	0.4	0.5	14	110-XX-428-41-001000
32	1.6	0.4	0.5	12	110-XX-432-41-001000
24	1.2	0.6	0.7	16	110-XX-624-41-001000
28	1.4	0.6	0.7	14	110-XX-628-41-001000
32	1.6	0.6	0.7	12	110-XX-632-41-001000
36	1.8	0.6	0.7	11	110-XX-636-41-001000
40	2.0	0.6	0.7	10	110-XX-640-41-001000
42	2.1	0.6	0.7	9	110-XX-642-41-001000
48	2.4	0.6	0.7	8	110-XX-648-41-001000
50	2.5	0.6	0.7	8	110-XX-650-41-001000
52	2.6	0.6	0.7	7	110-XX-652-41-001000
50	2.5	0.9	1.0	8	110-XX-950-41-001000
52	2.6	0.9	1.0	7	110-XX-952-41-001000
64	3.2	0.9	1.0	6	110-XX-964-41-001000



For RoHS compliance select  $\diamond$  plating code.

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

SPECIFY PLATING CODE XX=	13 $\diamond$	91	93	99	41 $\diamond$	43 $\diamond$	44 $\diamond$
Sleeve (Pin)	10 $\mu$ " Au	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn	200 $\mu$ " Sn	200 $\mu$ " Sn
Contact (Clip)	30 $\mu$ " Au	10 $\mu$ " Au	30 $\mu$ " Au	200 $\mu$ " Sn/Pb	10 $\mu$ " Au	30 $\mu$ " Au	200 $\mu$ " Sn

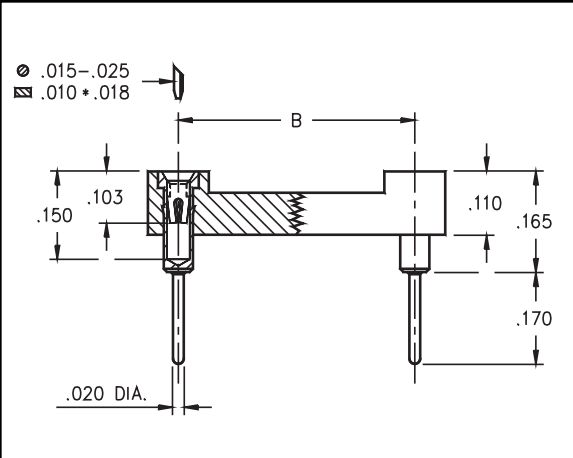


## DUAL-IN-LINE SOCKETS

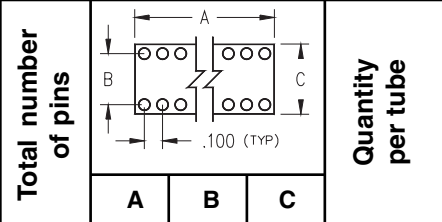
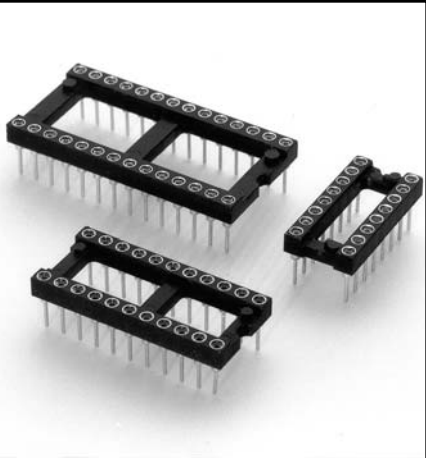
### Long Solder Tail for Multilayer PC-Boards

### Open Frame

Series 111



- DIP sockets with increased solder tail length of .170", allowing application on multi-layer PCBs up to .139" thick. Other lengths available upon request.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 111 use MM #0134 pins. See page 136 for details.
- Insulators are high temperature thermoplastic.



## Ordering Information

Total number of pins	Pin Spacing			Quantity per tube
	A	B	C	
10	0.5	0.2	0.3	40
4	0.2	0.3	0.4	102
6	0.3	0.3	0.4	67
8	0.4	0.3	0.4	50
10	0.5	0.3	0.4	40
14	0.7	0.3	0.4	28
16	0.8	0.3	0.4	25
18	0.9	0.3	0.4	22
20	1.0	0.3	0.4	20
22	1.1	0.3	0.4	18
24	1.2	0.3	0.4	16
28	1.4	0.3	0.4	14
20	1.0	0.4	0.5	20
22	1.1	0.4	0.5	18
24	1.2	0.4	0.5	16
28	1.4	0.4	0.5	14
32	1.6	0.4	0.5	12
24	1.2	0.6	0.7	16
28	1.4	0.6	0.7	14
32	1.6	0.6	0.7	12
36	1.8	0.6	0.7	11
40	2.0	0.6	0.7	10
42	2.1	0.6	0.7	9
48	2.4	0.6	0.7	8
50	2.5	0.6	0.7	8
52	2.6	0.6	0.7	7
50	2.5	0.9	1.0	8
52	2.6	0.9	1.0	7
64	3.2	0.9	1.0	6

111-XX-210-41-001000
111-XX-304-41-001000
111-XX-306-41-001000
111-XX-308-41-001000
111-XX-310-41-001000
111-XX-314-41-001000
111-XX-316-41-001000
111-XX-318-41-001000
111-XX-320-41-001000
111-XX-322-41-001000
111-XX-324-41-001000
111-XX-328-41-001000
111-XX-420-41-001000
111-XX-422-41-001000
111-XX-424-41-001000
111-XX-428-41-001000
111-XX-432-41-001000
111-XX-624-41-001000
111-XX-628-41-001000
111-XX-632-41-001000
111-XX-636-41-001000
111-XX-640-41-001000
111-XX-642-41-001000
111-XX-648-41-001000
111-XX-650-41-001000
111-XX-652-41-001000
111-XX-950-41-001000
111-XX-952-41-001000
111-XX-964-41-001000



For RoHS compliance select ◇ plating code.

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

SPECIFY PLATING CODE XX=			<b>93</b>			<b>43◇</b>	
Sleeve (Pin)			200μ" Sn/Pb			200μ" Sn	
Contact (Clip)			30μ" Au			30μ" Au	

Downloaded from [Arrow.com](http://Arrow.com)

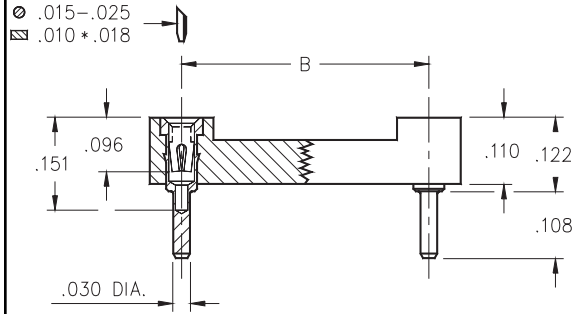




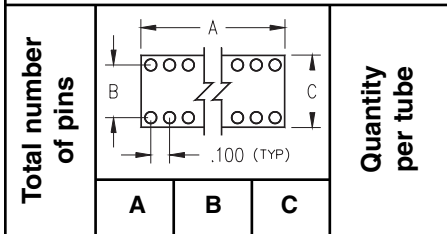
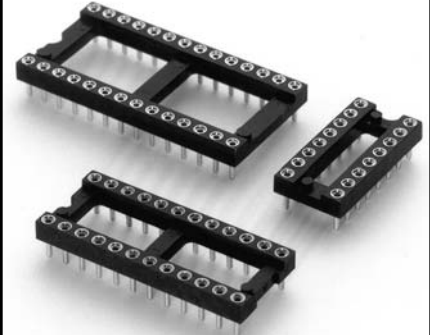
# DUAL-IN-LINE SOCKETS

## Very Low Profile Open Frame

Series 115...001



- Low profile DIP socket, sits only .122" above the PCB.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 115 use MM #0501 pins. See page 133 for details.
- Insulators are high temperature thermoplastic.



### Ordering Information

Total number of pins	Pin Spacing			Quantity per tube
	A	B	C	
10	0.5	0.2	0.3	41
4	0.2	0.3	0.4	102
6	0.3	0.3	0.4	67
8	0.4	0.3	0.4	50
10	0.5	0.3	0.4	40
14	0.7	0.3	0.4	28
16	0.8	0.3	0.4	25
18	0.9	0.3	0.4	22
20	1.0	0.3	0.4	20
22	1.1	0.3	0.4	18
24	1.2	0.3	0.4	16
28	1.4	0.3	0.4	14
20	1.0	0.4	0.5	20
22	1.1	0.4	0.5	18
24	1.2	0.4	0.5	16
28	1.4	0.4	0.5	14
32	1.6	0.4	0.5	12
24	1.2	0.6	0.7	16
28	1.4	0.6	0.7	14
32	1.6	0.6	0.7	12
36	1.8	0.6	0.7	11
40	2.0	0.6	0.7	10
42	2.1	0.6	0.7	9
48	2.4	0.6	0.7	8
50	2.5	0.6	0.7	8
52	2.6	0.6	0.7	7
50	2.5	0.9	1.0	8
52	2.6	0.9	1.0	7
64	3.2	0.9	1.0	6

115-XX-210-41-001000
115-XX-304-41-001000
115-XX-306-41-001000
115-XX-308-41-001000
115-XX-310-41-001000
115-XX-314-41-001000
115-XX-316-41-001000
115-XX-318-41-001000
115-XX-320-41-001000
115-XX-322-41-001000
115-XX-324-41-001000
115-XX-328-41-001000
115-XX-420-41-001000
115-XX-422-41-001000
115-XX-424-41-001000
115-XX-428-41-001000
115-XX-432-41-001000
115-XX-624-41-001000
115-XX-628-41-001000
115-XX-632-41-001000
115-XX-636-41-001000
115-XX-640-41-001000
115-XX-642-41-001000
115-XX-648-41-001000
115-XX-650-41-001000
115-XX-652-41-001000
115-XX-950-41-001000
115-XX-952-41-001000
115-XX-964-41-001000



For RoHS compliance select  $\diamond$  plating code.

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

SPECIFY PLATING CODE XX=	93	43 $\diamond$
Sleeve (Pin)	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn
Contact (Clip)	30 $\mu$ " Au	30 $\mu$ " Au

Downloaded from Arrow.com

- Our lowest profile DIP socket with an above PCB height of only .095".
- Special short Hi-Rel, 4-finger BeCu #12 contact is rated at 3 amps. See page 218 for details.
- Series 115 use MM #1534 pins. See page 132 for details.
- Insulators are high temperature thermoplastic.

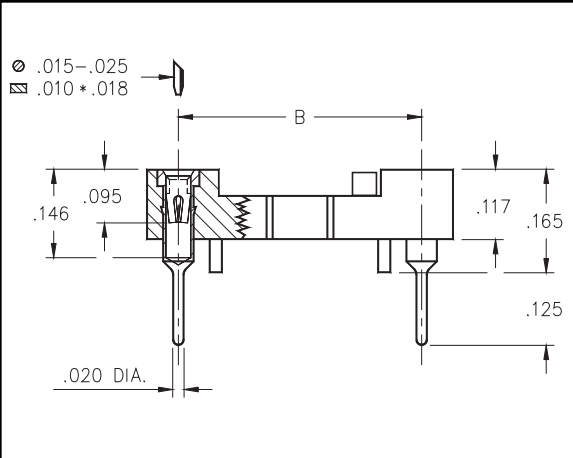
Total number of pins				Quantity per tube	Ordering Information
	A	B	C		

6	0.3	0.3	0.4	68	115-XX-306-41-003000	 <div style="border: 1px solid green; padding: 2px; font-size: 0.8em; margin-top: 10px;"> <i>For RoHS compliance select <span style="color: green;">◇</span> plating code.</i> </div>
8	0.4	0.3	0.4	50	115-XX-308-41-003000	
14	0.7	0.3	0.4	28	115-XX-314-41-003000	
16	0.8	0.3	0.4	25	115-XX-316-41-003000	
18	0.9	0.3	0.4	22	115-XX-318-41-003000	
20	1.0	0.3	0.4	20	115-XX-320-41-003000	
22	1.1	0.3	0.4	18	115-XX-322-41-003000	
24	1.2	0.3	0.4	16	115-XX-324-41-003000	
28	1.4	0.3	0.4	14	115-XX-328-41-003000	
20	1.0	0.4	0.5	20	115-XX-420-41-003000	
22	1.1	0.4	0.5	18	115-XX-422-41-003000	
24	1.2	0.4	0.5	16	115-XX-424-41-003000	
28	1.4	0.4	0.5	14	115-XX-428-41-003000	
24	1.2	0.6	0.7	16	115-XX-624-41-003000	
28	1.4	0.6	0.7	14	115-XX-628-41-003000	
32	1.6	0.6	0.7	12	115-XX-632-41-003000	
36	1.8	0.6	0.7	11	115-XX-636-41-003000	
40	2.0	0.6	0.7	10	115-XX-640-41-003000	
48	2.4	0.6	0.7	8	115-XX-648-41-003000	
50	2.5	0.6	0.7	8	115-XX-650-41-003000	

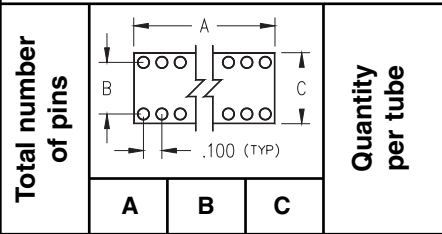
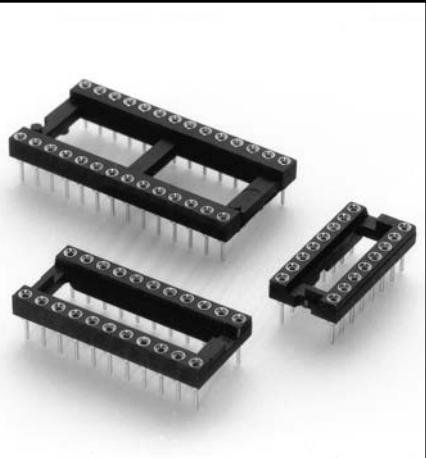
*For Electrical,  
Mechanical & Environmental  
Data, See pg. 4*

*XX=Plating Code  
See Below*

SPECIFY PLATING CODE XX=			<b>93</b>		<b>43◇</b>	<b>44◇</b>
Sleeve (Pin)			200μ" Sn/Pb		200μ" Sn	200μ" Sn
Contact (Clip)			30μ" Au		30μ" Au	200μ" Sn



- High temperature thermo-plastic insulator with standoffs is compatible with standard automatic insertion equipment.
- Soft copper alloy machined pins allows clinching. Chamfered contact entry allows for ease of IC insertion without bent leads.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 110 use MM #1005 pins. See page 137 for details.



## Ordering Information

Total number of pins	Pin Spacing			Quantity per tube
	A	B	C	
6	0.3	0.3	0.4	67
8	0.4	0.3	0.4	50
14	0.7	0.3	0.4	28
16	0.8	0.3	0.4	25
18	0.9	0.3	0.4	22
20	1.0	0.3	0.4	20
24	1.2	0.3	0.4	16
22	1.1	0.4	0.5	18
24	1.2	0.6	0.7	16
28	1.4	0.6	0.7	14
32	1.6	0.6	0.7	12
40	2.0	0.6	0.7	10

110-XX-306-41-605000
110-XX-308-41-605000
110-XX-314-41-605000
110-XX-316-41-605000
110-XX-318-41-605000
110-XX-320-41-605000
110-XX-324-41-605000
110-XX-422-41-605000
110-XX-624-41-605000
110-XX-628-41-605000
110-XX-632-41-605000
110-XX-640-41-605000

**RoHS**  
2002/95/EC

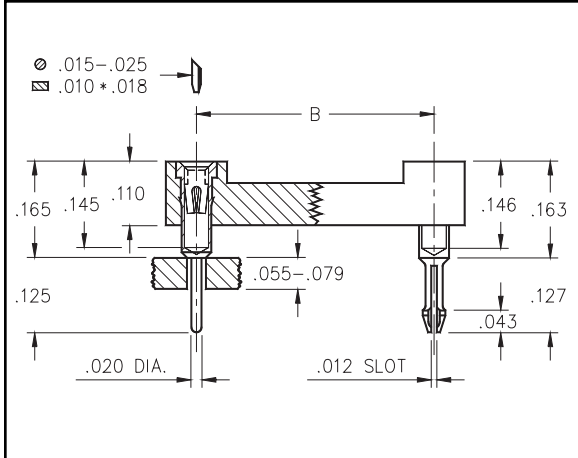
*For RoHS compliance select ◇ plating code.*

*For Electrical, Mechanical & Environmental Data, See pg. 4*

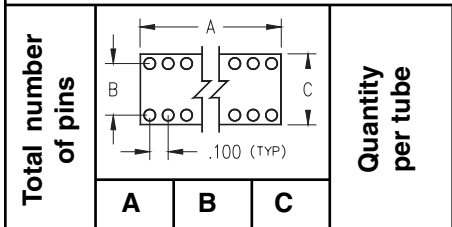
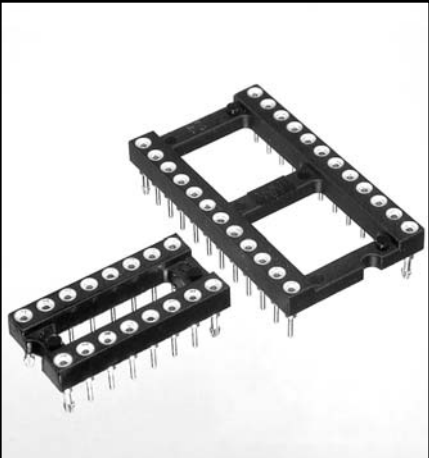
*XX=Plating Code See Below*

SPECIFY PLATING CODE XX=	93	43◇
Sleeve (Pin)	200μ" Sn/Pb	200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au

Downloaded from [Arrow.com](http://Arrow.com)



- Special lock-down feature prevents floating of socket during soldering. Open insulator with ladder construction.
- Sockets are XY stackable.
- Socket pins feature closed end construction eliminating any solder wicking problems.
- Series 101 use MM #1001 & MM #0156 pins. See page 136 for details.
- Insulators are high temperature thermoplastic.



## Ordering Information

Total number of pins	Pin Configuration			Quantity per tube
	A	B	C	
6	0.3	0.3	0.4	67
8	0.4	0.3	0.4	50
14	0.7	0.3	0.4	28
16	0.8	0.3	0.4	25
18	0.9	0.3	0.4	22
20	1.0	0.3	0.4	20
24	1.2	0.3	0.4	16
28	1.4	0.3	0.4	14
22	1.1	0.4	0.5	18
24	1.2	0.6	0.7	16
28	1.4	0.6	0.7	14
32	1.6	0.6	0.7	12
40	2.0	0.6	0.7	10
48	2.4	0.6	0.7	8
64	3.2	0.9	1.0	6

101-93-306-41-56X000
101-93-308-41-56X000
101-93-314-41-56X000
101-93-316-41-56X000
101-93-318-41-56X000
101-93-320-41-56X000
101-93-324-41-56X000
101-93-328-41-56X000
101-93-422-41-56X000
101-93-624-41-56X000
101-93-628-41-56X000
101-93-632-41-56X000
101-93-640-41-56X000
101-93-648-41-56X000
101-93-964-41-56X000

Clinch Pins: ↑  
 Two Opposite Corner Pins **X = 0**  
 Four Corner Pins **X = 8**

For Electrical,  
Mechanical & Environmental  
Data, See pg. 4



For RoHS compliance  
select ◇ plating code.

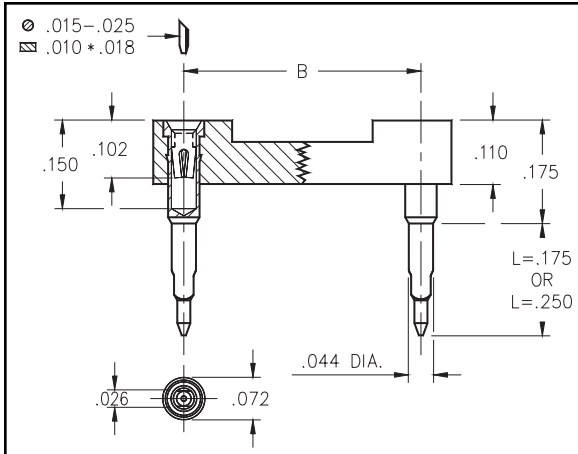
PLATING CODE =			<b>93</b>				
Sleeve (Pin)			200μ" Sn/Pb				
Contact (Clip)			30μ" Au				

Downloaded from [Arrow.com](http://Arrow.com)

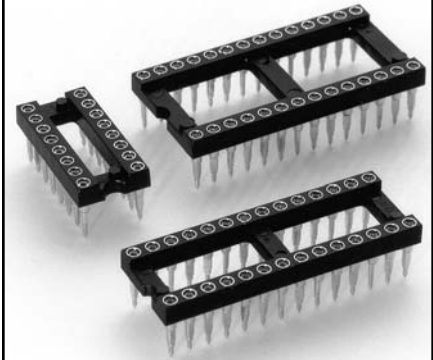


## DUAL-IN-LINE SOCKETS Solderless Press-Fit Open Frame

Series 104



- Designed for solderless press-fit into plated thru-holes.
- Pin lengths are suitable for .062" and .093"-.125" thick panels.
- Required plated thru-hole is .036"-.041". Use a 1.1mm drill prior to plating.
- Series 104 use MM #0477 or MM #0478 pins with a BeCu #30 contact, rated at 3 amps. See page 133 for details.
- Insulators are high temperature thermoplastic.



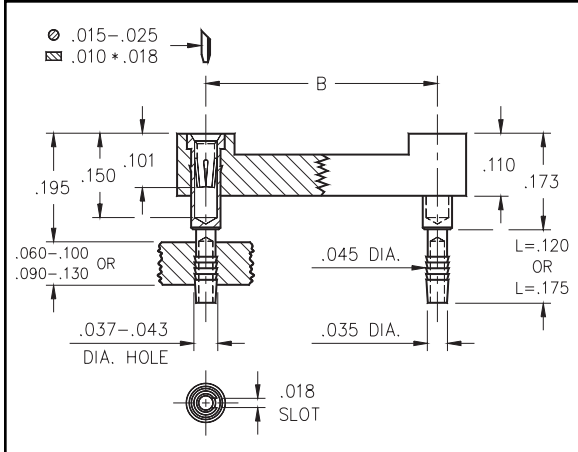
Total number of pins				Quantity per tube	Ordering Information			
	A	B	C		L = .175 (for .062 thick panel)	L = .250 (for .125 thick panel)	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p style="text-align: center; margin: 0;"><b>RoHS</b> 2002/95/EC</p> <p style="text-align: center; margin: 0; font-size: small;">For RoHS compliance select <span style="color: green;">◇</span> plating code.</p> </div>	
10	0.5	0.2	0.3	40	104-13-210-41-770000	104-13-210-41-780000		
4	0.2	0.3	0.4	102	104-13-304-41-770000	104-13-304-41-780000		
6	0.3	0.3	0.4	67	104-13-306-41-770000	104-13-306-41-780000		
8	0.4	0.3	0.4	50	104-13-308-41-770000	104-13-308-41-780000		
10	0.5	0.3	0.4	40	104-13-310-41-770000	104-13-310-41-780000		
14	0.7	0.3	0.4	28	104-13-314-41-770000	104-13-314-41-780000		
16	0.8	0.3	0.4	25	104-13-316-41-770000	104-13-316-41-780000		
18	0.9	0.3	0.4	22	104-13-318-41-770000	104-13-318-41-780000		
20	1.0	0.3	0.4	20	104-13-320-41-770000	104-13-320-41-780000		
22	1.1	0.3	0.4	18	104-13-322-41-770000	104-13-322-41-780000		
24	1.2	0.3	0.4	16	104-13-324-41-770000	104-13-324-41-780000		
28	1.4	0.3	0.4	14	104-13-328-41-770000	104-13-328-41-780000		
20	1.0	0.4	0.5	20	104-13-420-41-770000	104-13-420-41-780000		
22	1.1	0.4	0.5	18	104-13-422-41-770000	104-13-422-41-780000		
24	1.2	0.4	0.5	16	104-13-424-41-770000	104-13-424-41-780000		
28	1.4	0.4	0.5	14	104-13-428-41-770000	104-13-428-41-780000		
32	1.6	0.4	0.5	12	104-13-432-41-770000	104-13-432-41-780000		
24	1.2	0.6	0.7	16	104-13-624-41-770000	104-13-624-41-780000		
28	1.4	0.6	0.7	14	104-13-628-41-770000	104-13-628-41-780000		
32	1.6	0.6	0.7	12	104-13-632-41-770000	104-13-632-41-780000		
36	1.8	0.6	0.7	11	104-13-636-41-770000	104-13-636-41-780000		
40	2.0	0.6	0.7	10	104-13-640-41-770000	104-13-640-41-780000		
42	2.1	0.6	0.7	9	104-13-642-41-770000	104-13-642-41-780000		
48	2.4	0.6	0.7	8	104-13-648-41-770000	104-13-648-41-780000		
50	2.5	0.6	0.7	8	104-13-650-41-770000	104-13-650-41-780000		
52	2.6	0.6	0.7	7	104-13-652-41-770000	104-13-652-41-780000		
50	2.5	0.9	1.0	8	104-13-950-41-770000	104-13-950-41-780000		
52	2.6	0.9	1.0	7	104-13-952-41-770000	104-13-952-41-780000		
64	3.2	0.9	1.0	6	104-13-964-41-770000	104-13-964-41-780000		
PLATING CODE XX=				13◇				
Sleeve (Pin)				10μ" Au				
Contact (Clip)				30μ" Au				

For Electrical,  
Mechanical & Environmental  
Data, See pg. 4

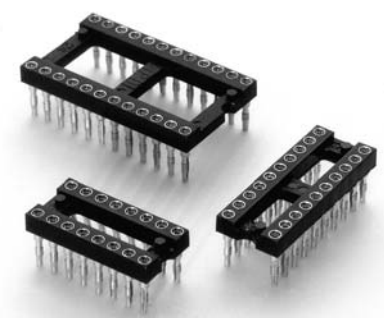


## DUAL-IN-LINE SOCKETS Solderless Press-Fit, Compliant Tail Open Frame

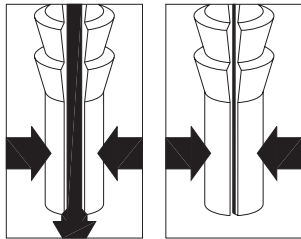
Series 146



- Unique compliant tail pins conform to  $.040 \pm .003$ " finished hole diameter without stressing inner layers.
- Two tails lengths are offered for  $.060$ "- $.100$ " and  $.090$ "- $.130$ " thick panels.
- Series 146 use MM #4612 or MM #4613 pins with a BeCu #30 contact, rated at 3 amps. See page 133 for details.
- Insulators are high temperature thermoplastic.



### APPLICATION OF COMPLIANT TAIL PINS



Mill-Max's patented\* compliant tail features precision-machined pins that are hollow and slotted to conform to a  $.040 \pm .003$ " diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration at left). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.

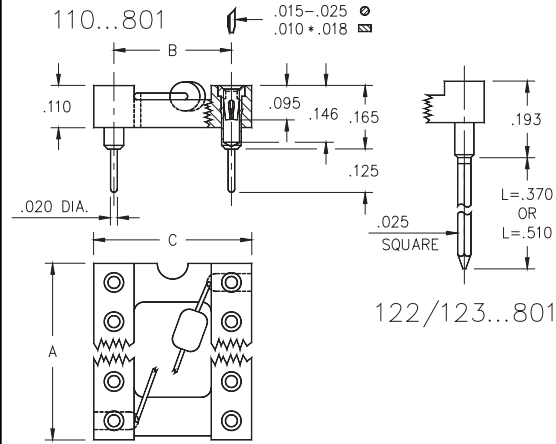
\*Patent No. 4,799,904.

Total number of pins				Quantity per tube	Ordering Information						
	A	B	C		L=.120 (for .060"- .100" thick panel)	L=.175 (for .090"- .130" thick panel)					
6	0.3	0.3	0.4	67	146-XX-306-41-012000	146-XX-306-41-013000	<div style="border: 1px solid green; padding: 5px; margin-bottom: 10px;"> <i>For RoHS compliance select <span style="color: green;">◇</span> plating code.</i> </div> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; margin-bottom: 10px; width: fit-content; margin: 0 auto;"> <i>For Electrical, Mechanical &amp; Environmental Data, See pg. 4</i> </div> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; width: fit-content; margin: 0 auto;"> <i>XX=Plating Code See Below</i> </div>				
8	0.4	0.3	0.4	50	146-XX-308-41-012000	146-XX-308-41-013000					
14	0.7	0.3	0.4	28	146-XX-314-41-012000	146-XX-314-41-013000					
16	0.8	0.3	0.4	25	146-XX-316-41-012000	146-XX-316-41-013000					
18	0.9	0.3	0.4	22	146-XX-318-41-012000	146-XX-318-41-013000					
20	1.0	0.3	0.4	20	146-XX-320-41-012000	146-XX-320-41-013000					
24	1.2	0.3	0.4	16	146-XX-324-41-012000	146-XX-324-41-013000					
22	1.1	0.4	0.5	18	146-XX-422-41-012000	146-XX-422-41-013000					
24	1.2	0.6	0.7	16	146-XX-624-41-012000	146-XX-624-41-013000					
28	1.4	0.6	0.7	14	146-XX-628-41-012000	146-XX-628-41-013000					
32	1.6	0.6	0.7	12	146-XX-632-41-012000	146-XX-632-41-013000					
40	2.0	0.6	0.7	10	146-XX-640-41-012000	146-XX-640-41-013000					
SPECIFY PLATING CODE XX=								93		43 ◇	
Sleeve (Pin)								200μ" Sn/Pb		200μ" Sn	
Contact (Clip)								30μ" Au		30μ" Au	

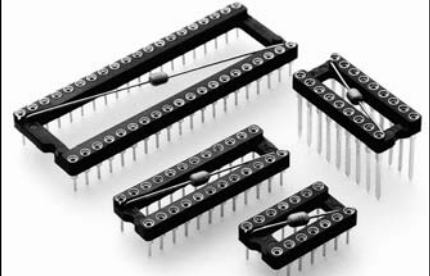


# DUAL-IN-LINE SOCKETS With Integral Decoupling Capacitor Open Frame

Series 110, 122, 123...801



- Low profile DIP sockets with integral decoupling capacitor: .1μ F 20%-50V multi-layer ceramic epoxy encapsulated. Temp. range: -25° C to +85° C.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 110, 122 and 123 use MM #1001, #0088 or #0089 pins. See pages 136 and 166 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information		
	A	B	C		Solder Tail	2 Level Wrappost L = .370	3 Level Wrappost L = .510
	14	0.7	0.3		0.4	28	110-XX-314-41-801000
16	0.8	0.3	0.4	25	110-XX-316-41-801000	122-13-316-41-801000	123-XX-316-41-801000
18	0.9	0.3	0.4	22	110-XX-318-41-801000	122-13-318-41-801000	123-XX-318-41-801000
20	1.0	0.3	0.4	20	110-XX-320-41-801000	122-13-320-41-801000	123-XX-320-41-801000
22	1.1	0.3	0.4	18	110-XX-322-41-801000	122-13-322-41-801000	123-XX-322-41-801000
24	1.2	0.3	0.4	16	110-XX-324-41-801000	122-13-324-41-801000	123-XX-324-41-801000
28	1.4	0.3	0.4	14	110-XX-328-41-801000	122-13-328-41-801000	123-XX-328-41-801000
22	1.1	0.4	0.5	18	110-XX-422-41-801000	122-13-422-41-801000	123-XX-422-41-801000
24	1.2	0.6	0.7	16	110-XX-624-41-801000	122-13-624-41-801000	123-XX-624-41-801000
28	1.4	0.6	0.7	14	110-XX-628-41-801000	122-13-628-41-801000	123-XX-628-41-801000
32	1.6	0.6	0.7	12	110-XX-632-41-801000	122-13-632-41-801000	123-XX-632-41-801000
40	2.0	0.6	0.7	10	110-XX-640-41-801000	122-13-640-41-801000	123-XX-640-41-801000

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select  $\diamond$  plating code.



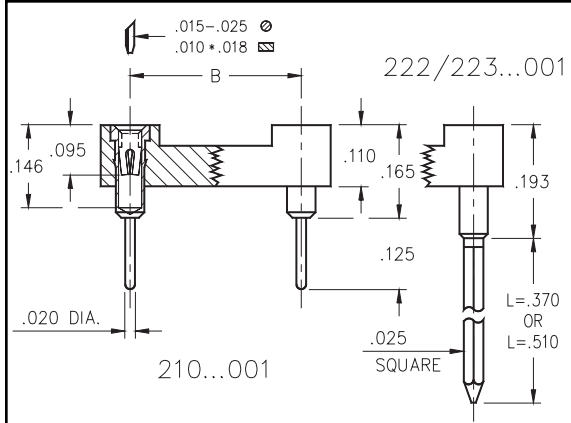
SPECIFY PLATING CODE XX=	13 $\diamond$	93	43 $\diamond$
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au	30μ" Au

Downloaded from Arrow.com

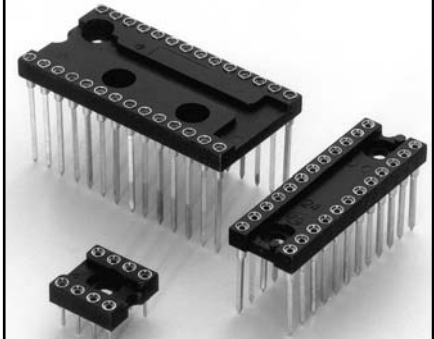


## DUAL-IN-LINE SOCKETS Solder Tail and Wrapost Closed Frame

Series 210, 222, 223



- Closed frame insulator withstands high mechanical impact.
- Available with standard solder pins, 2-level or 3-level wraposts.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 210, 222 and 223 use MM #1001, #0088 or #0089 pins. See pages 136 and 166 for details.
- Insulators are high temperature thermoplastic.



Total number of pins	Quantity per tube			Ordering Information			
				Solder Tail	2 Level Wrapost L = .370	3 Level Wrapost L = .510	
	A	B	C				
6	0.3	0.3	0.4	67	210-XX-306-41-001000	222-XX-306-41-001000	223-XX-306-41-001000
8	0.4	0.3	0.4	50	210-XX-308-41-001000	222-XX-308-41-001000	223-XX-308-41-001000
10	0.5	0.3	0.4	40	210-XX-310-41-001000	222-XX-310-41-001000	223-XX-310-41-001000
14	0.7	0.3	0.4	28	210-XX-314-41-001000	222-XX-314-41-001000	223-XX-314-41-001000
16	0.8	0.3	0.4	25	210-XX-316-41-001000	222-XX-316-41-001000	223-XX-316-41-001000
18	0.9	0.3	0.4	22	210-XX-318-41-001000	222-XX-318-41-001000	223-XX-318-41-001000
20	1.0	0.3	0.4	20	210-XX-320-41-001000	222-XX-320-41-001000	223-XX-320-41-001000
22	1.1	0.3	0.4	18	210-XX-322-41-001000	222-XX-322-41-001000	223-XX-322-41-001000
24	1.2	0.3	0.4	16	210-XX-324-41-001000	222-XX-324-41-001000	223-XX-324-41-001000
22	1.1	0.4	0.5	18	210-XX-422-41-001000	222-XX-422-41-001000	223-XX-422-41-001000
24	1.2	0.4	0.5	16	210-XX-424-41-001000	222-XX-424-41-001000	223-XX-424-41-001000
24	1.2	0.6	0.7	16	210-XX-624-41-001000	222-XX-624-41-001000	223-XX-624-41-001000
28	1.4	0.6	0.7	14	210-XX-628-41-001000	222-XX-628-41-001000	223-XX-628-41-001000
32	1.6	0.6	0.7	12	210-XX-632-41-001000	222-XX-632-41-001000	223-XX-632-41-001000
36	1.8	0.6	0.7	11	210-XX-636-41-001000	222-XX-636-41-001000	223-XX-636-41-001000
40	2.0	0.6	0.7	10	210-XX-640-41-001000	222-XX-640-41-001000	223-XX-640-41-001000
64	3.2	0.9	1.0	6	210-XX-964-41-001000	222-XX-964-41-001000	223-XX-964-41-001000

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select  $\diamond$  plating code.



SPECIFY PLATING CODE XX=	13 $\diamond$	93	99	43 $\diamond$	44 $\diamond$
Sleeve (Pin)	10 $\mu$ " Au	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn	200 $\mu$ " Sn
Contact (Clip)	30 $\mu$ " Au	30 $\mu$ " Au	200 $\mu$ " Sn/Pb	30 $\mu$ " Au	200 $\mu$ " Sn

Downloaded from Arrow.com





**MILITARY DUAL-IN-LINE SOCKETS**  
**MIL-S-83734 APPROVED**  
**Solder Tail, Open Frame**

Series 110...530

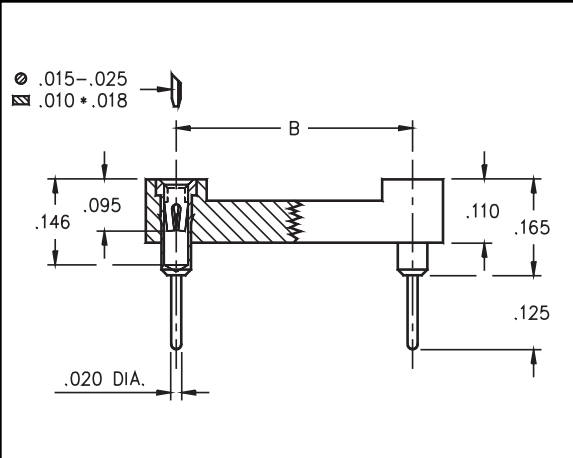
- Sockets are XY stackable.
- Machined outer sleeve with Hi-Rel, BeCu #30 inner contact.
- Socket pins feature closed-entry construction eliminating any solder/flux wicking problems.
- Packaged in tubes compatible with automatic insertion equipment.
- Series 110 use MM #1001 pins. See page 136 for details.
- Insulators are high temperature thermoplastic.

Total number of pins				Quantity per tube	<b>Ordering Information</b>			
	A	B	C		Mill-Max Part Number		Military Part Number	
	8	0.4	0.3		0.4	50	110-XX-308-41-530000	M83734/2-YYY
14	0.7	0.3	0.4	28	110-XX-314-41-530000	M83734/3-YYY		
16	0.8	0.3	0.4	25	110-XX-316-41-530000	M83734/4-YYY		
18	0.9	0.3	0.4	22	110-XX-318-41-530000	M83734/5-YYY		
20	1.0	0.3	0.4	20	110-XX-320-41-530000	M83734/13-YYY		
22	1.1	0.4	0.5	18	110-XX-422-41-530000	M83734/6-YYY		
24	1.2	0.6	0.7	16	110-XX-624-41-530000	M83734/8-YYY		
28	1.4	0.6	0.7	14	110-XX-628-41-530000	M83734/7-YYY		
40	2.0	0.6	0.7	10	110-XX-640-41-530000	M83734/10-YYY		
48	2.4	0.6	0.7	8	110-XX-648-41-530000	M83734/14-YYY		
64	3.2	0.9	1.0	6	110-XX-964-41-530000	M83734/15-YYY		
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; text-align: center;"> <i>For Electrical, Mechanical &amp; Environmental Data, See pg. 4</i> </div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; text-align: center;"> <i>XX=Plating Code See Below</i> </div> </div>					<b>SEE PAGE 35 FOR COMPLETE QPL</b>			
SPECIFY MILL-MAX PLATING CODE XX=					<b>33</b>	<b>83</b>	<b>88</b>	
FOR MILITARY CODE YYY=					<b>028</b>	<b>029</b>	<b>030</b>	
Sleeve (Pin)					30μ" Au	300μ" Sn/Pb	300μ" Sn/Pb	
Contact (Clip)					30μ" Au	30μ" Au	100μ" Sn/Pb	

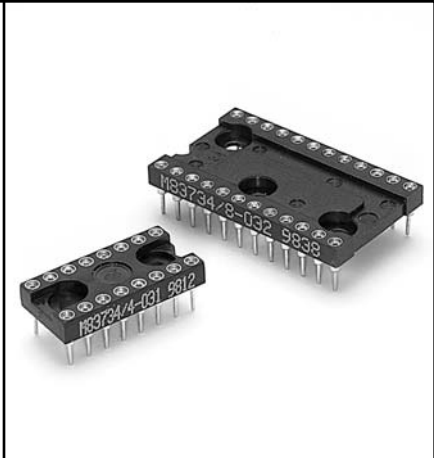


**MILITARY DUAL-IN-LINE SOCKETS**  
**MIL-S-83734 APPROVED**  
**Solder Tail, Closed Frame**

Series 210...101



- Sockets are XY stackable.
- Machined outer sleeve with Hi-Rel, BeCu #30 inner contact.
- Socket pins feature closed-end construction eliminating any solder/flux wicking problems.
- Packaged in tubes compatible with automatic insertion equipment.
- Series 210 use MM #1001 pins. See page 136 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information		
	A	B	C		Mill-Max Part Number	Military Part Number	
	6	0.3	0.3		0.4	67	210-XX-306-41-101000
8	0.4	0.3	0.4	50	210-XX-308-41-101000	M83734/2-YYY	
14	0.7	0.3	0.4	28	210-XX-314-41-101000	M83734/3-YYY	
16	0.8	0.3	0.4	25	210-XX-316-41-101000	M83734/4-YYY	
18	0.9	0.3	0.4	22	210-XX-318-41-101000	M83734/5-YYY	
20	1.0	0.3	0.4	20	210-XX-320-41-101000	M83734/13-YYY	
22	1.1	0.4	0.5	18	210-XX-422-41-101000	M83734/6-YYY	
24	1.2	0.6	0.7	16	210-XX-624-41-101000	M83734/8-YYY	
28	1.4	0.6	0.7	14	210-XX-628-41-101000	M83734/7-YYY	
32	1.6	0.6	0.7	10	210-XX-632-41-101000	M83734/17-YYY	
40	2.0	0.6	0.7	8	210-XX-640-41-101000	M83734/10-YYY	
64	3.2	0.9	1.0	6	210-XX-964-41-101000	M83734/15-YYY	

*For Electrical,  
Mechanical & Environmental  
Data, See pg. 4*

*XX=Plating Code  
See Below*

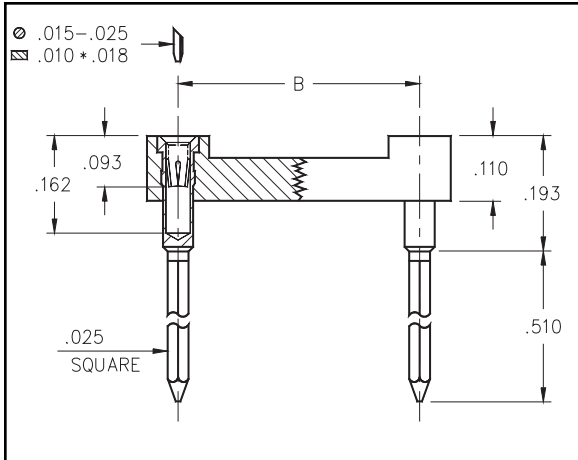
SEE PAGE 35 FOR COMPLETE QPL			
SPECIFY MILL-MAX PLATING CODE XX=	<b>33</b>	<b>83</b>	<b>88</b>
FOR MILITARY CODE YYY=	<b>031</b>	<b>032</b>	<b>033</b>
(6 PIN ONLY) YYY=	<b>025</b>	<b>026</b>	<b>027</b>
(32 PIN ONLY) YYY=	<b>013</b>	<b>014</b>	<b>015</b>
Sleeve (Pin)	30μ" Au	300μ" Sn/Pb	300μ" Sn/Pb
Contact (Clip)	30μ" Au	30μ" Au	100μ" Sn/Pb

Downloaded from Arrow.com

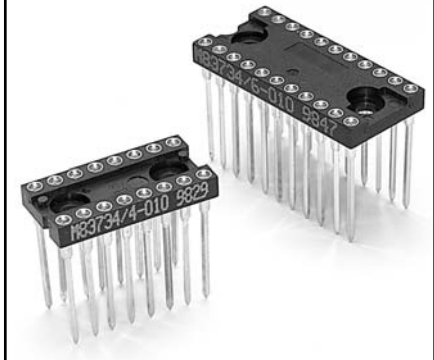


**MILITARY DUAL-IN-LINE SOCKETS**  
**MIL-S-83734 APPROVED**  
**3 Level Wrappost, Closed Frame**

Series 223...101



- Sockets are XY stackable.
- Machined outer sleeve with Hi-Rel, BeCu #30 inner contact.
- Socket pins feature closed-end construction eliminating any solder/flux wicking problems.
- Series 223 use MM #0038-3 pins. See page 166 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information		
	A	B	C		Mill-Max Part Number	Military Part Number	
6	0.3	0.3	0.4	67	223-XX-306-41-101000	M83734/1-YYY	
8	0.4	0.3	0.4	50	223-XX-308-41-101000	M83734/2-YYY	
14	0.7	0.3	0.4	28	223-XX-314-41-101000	M83734/3-YYY	
16	0.8	0.3	0.4	25	223-XX-316-41-101000	M83734/4-YYY	
18	0.9	0.3	0.4	22	223-XX-318-41-101000	M83734/5-YYY	
20	1.0	0.3	0.4	20	223-XX-320-41-101000	M83734/13-YYY	
22	1.1	0.4	0.5	18	223-XX-422-41-101000	M83734/6-YYY	
24	1.2	0.6	0.7	16	223-XX-624-41-101000	M83734/8-YYY	
28	1.4	0.6	0.7	14	223-XX-628-41-101000	M83734/7-YYY	
32	1.6	0.6	0.7	12	223-XX-632-41-101000	M83734/17-YYY	
40	2.0	0.6	0.7	10	223-XX-640-41-101000	M83734/10-YYY	
64	3.2	0.9	1.0	6	223-XX-964-41-101000	M83734/15-YYY	

*For Electrical,  
Mechanical & Environmental  
Data, See pg. 4*

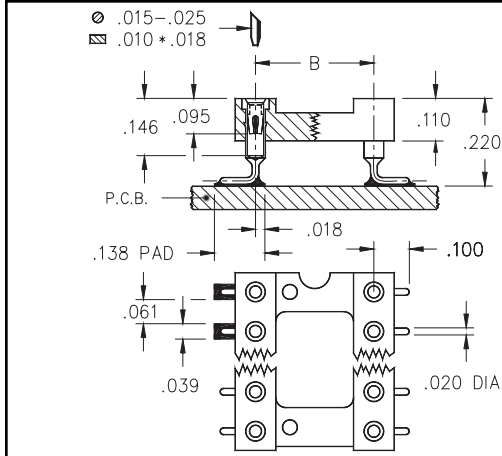
*XX=Plating Code  
See Below*

<b>SEE PAGE 35 FOR COMPLETE QPL</b>			
SPECIFY MILL-MAX PLATING CODE XX=	<b>33</b>	<b>83</b>	<b>88</b>
FOR MILITARY CODE YYY=	<b>010</b>	<b>011</b>	<b>012</b>
(32 PIN ONLY) YYY=	<b>007</b>	<b>008</b>	<b>009</b>
Sleeve (Pin)	30μ" Au	300μ" Sn/Pb	300μ" Sn/Pb
Contact (Clip)	30μ" Au	30μ" Au	100μ" Sn/Pb

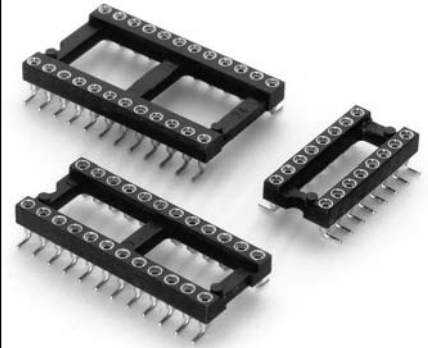


**DIP SOCKETS QUALIFIED  
to MIL-S-83734**

MIL SPEC #	MILL-MAX #	MIL SPEC #	MILL-MAX #	MIL SPEC #	MILL-MAX #
M83734/1-010	223-33-306-41-101000	M83734/7-010	223-33-628-41-101000	M83734/15-032	210-83-964-41-101000
M83734/1-011	223-83-306-41-101000	M83734/7-011	223-83-628-41-101000	M83734/15-033	210-88-964-41-101000
M83734/1-012	223-88-306-41-101000	M83734/7-012	223-88-628-41-101000		
M83734/1-025	210-33-306-41-101000	M83734/7-028	110-33-628-41-530000	M83734/17-001	221-33-632-41-101000
M83734/1-026	210-83-306-41-101000	M83734/7-029	110-83-628-41-530000	M83734/17-002	221-83-632-41-101000
M83734/1-027	210-88-306-41-101000	M83734/7-030	110-88-628-41-530000	M83734/17-003	221-88-632-41-101000
		M83734/7-031	210-33-628-41-101000	M83734/17-004	222-33-632-41-101000
M83734/2-010	223-33-308-41-101000	M83734/7-032	210-83-628-41-101000	M83734/17-005	222-83-632-41-101000
M83734/2-011	223-83-308-41-101000	M83734/7-033	210-88-628-41-101000	M83734/17-006	222-88-632-41-101000
M83734/2-012	223-88-308-41-101000			M83734/17-007	223-33-632-41-101000
M83734/2-028	110-33-308-41-530000	M83734/8-010	223-33-624-41-101000	M83734/17-008	223-83-632-41-101000
M83734/2-029	110-83-308-41-530000	M83734/8-011	223-83-624-41-101000	M83734/17-009	223-88-632-41-101000
M83734/2-030	110-88-308-41-530000	M83734/8-012	223-88-624-41-101000	M83734/17-013	210-33-632-41-101000
M83734/2-031	210-33-308-41-101000	M83734/8-028	110-33-624-41-530000	M83734/17-014	210-83-632-41-101000
M83734/2-032	210-83-308-41-101000	M83734/8-029	110-83-624-41-530000	M83734/17-015	210-88-632-41-101000
M83734/2-033	210-88-308-41-101000	M83734/8-030	110-88-624-41-530000		
		M83734/8-031	210-33-624-41-101000		
M83734/3-010	223-33-314-41-101000	M83734/8-032	210-83-624-41-101000		
M83734/3-011	223-83-314-41-101000	M83734/8-033	210-88-624-41-101000		
M83734/3-012	223-88-314-41-101000				
M83734/3-028	110-33-314-41-530000	M83734/9-010	223-33-636-41-101000		
M83734/3-029	110-83-314-41-530000	M83734/9-011	223-83-636-41-101000		
M83734/3-030	110-88-314-41-530000	M83734/9-012	223-88-636-41-101000		
M83734/3-031	210-33-314-41-101000	M83734/9-031	210-33-636-41-101000		
M83734/3-032	210-83-314-41-101000	M83734/9-032	210-83-636-41-101000		
M83734/3-033	210-88-314-41-101000	M83734/9-033	210-88-636-41-101000		
M83734/4-010	223-33-316-41-101000	M83734/10-010	223-33-640-41-101000		
M83734/4-011	223-83-316-41-101000	M83734/10-011	223-83-640-41-101000		
M83734/4-012	223-88-316-41-101000	M83734/10-012	223-88-640-41-101000		
M83734/4-028	110-33-316-41-530000	M83734/10-028	110-33-640-41-530000		
M83734/4-029	110-83-316-41-530000	M83734/10-029	110-83-640-41-530000		
M83734/4-030	110-88-316-41-530000	M83734/10-030	110-88-640-41-530000		
M83734/4-031	210-33-316-41-101000	M83734/10-031	210-33-640-41-101000		
M83734/4-032	210-83-316-41-101000	M83734/10-032	210-83-640-41-101000		
M83734/4-033	210-88-316-41-101000	M83734/10-033	210-88-640-41-101000		
M83734/5-010	223-33-318-41-101000	M83734/13-010	223-33-320-41-101000		
M83734/5-011	223-83-318-41-101000	M83734/13-011	223-83-320-41-101000		
M83734/5-012	223-88-318-41-101000	M83734/13-012	223-88-320-41-101000		
M83734/5-028	110-33-318-41-530000	M83734/13-028	110-33-320-41-530000		
M83734/5-029	110-83-318-41-530000	M83734/13-029	110-83-320-41-530000		
M83734/5-030	110-88-318-41-530000	M83734/13-030	110-88-320-41-530000		
M83734/5-031	210-33-318-41-101000	M83734/13-031	210-33-320-41-101000		
M83734/5-032	210-83-318-41-101000	M83734/13-032	210-83-320-41-101000		
M83734/5-033	210-88-318-41-101000	M83734/13-033	210-88-320-41-101000		
M83734/6-010	223-33-422-41-101000	M83734/14-028	110-33-648-41-530000		
M83734/6-011	223-83-422-41-101000	M83734/14-029	110-83-648-41-530000		
M83734/6-012	223-88-422-41-101000	M83734/14-030	110-88-648-41-530000		
M83734/6-028	110-33-422-41-530000				
M83734/6-029	110-83-422-41-530000	M83734/15-010	223-33-964-41-101000		
M83734/6-030	110-88-422-41-530000	M83734/15-011	223-83-964-41-101000		
M83734/6-031	210-33-422-41-101000	M83734/15-012	223-88-964-41-101000		
M83734/6-032	210-83-422-41-101000	M83734/15-028	110-33-964-41-530000		
M83734/6-033	210-88-422-41-101000	M83734/15-029	110-83-964-41-530000		
		M83734/15-030	110-88-964-41-530000		
		M83734/15-031	210-33-964-41-101000		



- For infra-red reflow and vapor phase soldering.
- Gull wing terminals for max. strength and easy in-circuit test.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 110 use MM #1005 pins. See page 137 for details.
- Insulators are high temperature thermoplastic.



Total number of pins	Pin Spacing			Quantity per tube	<h2>Ordering Information</h2>
	A	B	C		

10	0.5	0.2	0.3	40
4	0.2	0.3	0.4	102
6	0.3	0.3	0.4	67
8	0.4	0.3	0.4	50
10	0.5	0.3	0.4	40
14	0.7	0.3	0.4	28
16	0.8	0.3	0.4	25
18	0.9	0.3	0.4	22
20	1.0	0.3	0.4	20
22	1.1	0.3	0.4	18
24	1.2	0.3	0.4	16
28	1.4	0.3	0.4	14
20	1.0	0.4	0.5	20
22	1.1	0.4	0.5	18
24	1.2	0.4	0.5	16
28	1.4	0.4	0.5	14
32	1.6	0.4	0.5	12
24	1.2	0.6	0.7	32
28	1.4	0.6	0.7	28
32	1.6	0.6	0.7	24
36	1.8	0.6	0.7	22
40	2.0	0.6	0.7	20
42	2.1	0.6	0.7	18
48	2.4	0.6	0.7	16
50	2.5	0.6	0.7	16
52	2.6	0.6	0.7	14
50	2.5	0.9	1.0	16
52	2.6	0.9	1.0	14
64	3.2	0.9	1.0	12

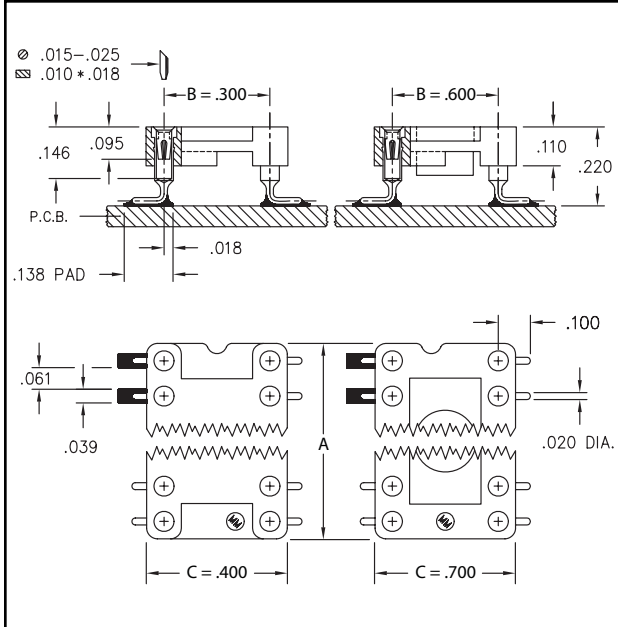
*For RoHS compliance select ◇ plating code.*

110-XX-210-41-105000
110-XX-304-41-105000
110-XX-306-41-105000
110-XX-308-41-105000
110-XX-310-41-105000
110-XX-314-41-105000
110-XX-316-41-105000
110-XX-318-41-105000
110-XX-320-41-105000
110-XX-322-41-105000
110-XX-324-41-105000
110-XX-328-41-105000
110-XX-420-41-105000
110-XX-422-41-105000
110-XX-424-41-105000
110-XX-428-41-105000
110-XX-432-41-105000
110-XX-624-41-105000
110-XX-628-41-105000
110-XX-632-41-105000
110-XX-636-41-105000
110-XX-640-41-105000
110-XX-642-41-105000
110-XX-648-41-105000
110-XX-650-41-105000
110-XX-652-41-105000
110-XX-950-41-105000
110-XX-952-41-105000
110-XX-964-41-105000

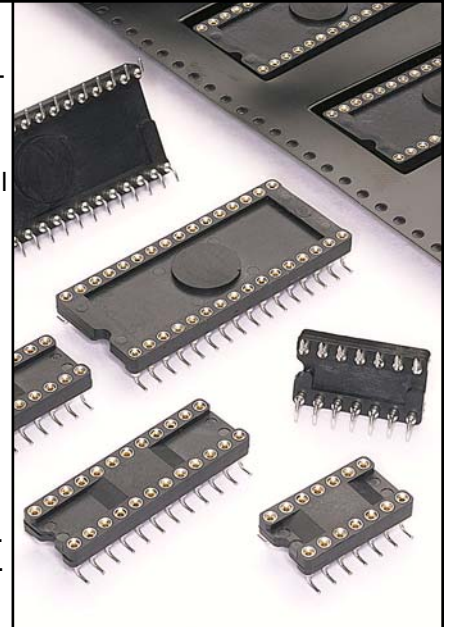
*For Electrical,  
Mechanical & Environmental  
Data, See pg. 4*

**XX=Plating Code  
See Below**

SPECIFY PLATING CODE XX=		<b>93</b>		<b>43◇</b>	
Sleeve (Pin)		200μ" Sn/Pb		200μ" Sn	
Contact (Clip)		30μ" Au		30μ" Au	



- Closed frame insulator is vision system compatible.
- High-temp Nylon 46 insulator is suitable for all forms of reflow soldering.
- Traditional gull-wing leads permit visual inspection of solder joints.
- Available packaged in tubes or on tape & reel per EIA-481.
- Uses Mill-Max #1005 pin. See page 137 for details.



Total number of pins				<b>Ordering Information</b>				
	A	B	C	QTY PER TUBE	TUBE PACKAGING	TAPE & REEL PACKAGING	TAPE WIDTH (mm)	QTY PER REEL
	<b>VACUUM PAD TOP SURFACE ONLY</b>							
6	0.3	0.3	0.4	67	210-XX-306-41-105000	210-XX-306-41-105799	16	400
8	0.4	0.3	0.4	50	210-XX-308-41-105000	210-XX-308-41-105799	24	400
14	0.7	0.3	0.4	28	210-XX-314-41-105000	210-XX-314-41-105799	32	400
16	0.8	0.3	0.4	25	210-XX-316-41-105000	210-XX-316-41-105799	32	400
18	0.9	0.3	0.4	22	210-XX-318-41-105000	210-XX-318-41-105799	44	400
20	1.0	0.3	0.4	20	210-XX-320-41-105000	210-XX-320-41-105799	44	400
24	1.2	0.3	0.4	16	210-XX-324-41-105000	210-XX-324-41-105799	44	400
<b>VACUUM PAD TOP AND BOTTOM</b>								
24	1.2	0.6	0.7	16	210-XX-624-41-105000	210-XX-624-41-105799	44	300
28	1.4	0.6	0.7	14	210-XX-628-41-105000	210-XX-628-41-105799	56	300
32	1.6	0.6	0.7	12	210-XX-632-41-105000	210-XX-632-41-105799	56	300
40	2.0	0.6	0.7	10	210-XX-640-41-105000	NOT AVAILABLE		

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

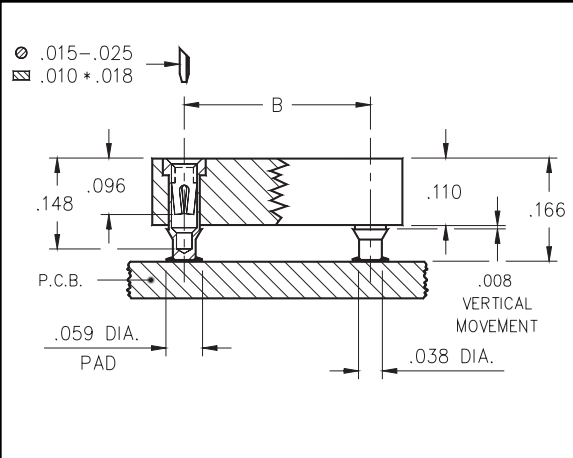


SPECIFY PLATING CODE XX=	<span style="color: green;">13◇</span>	93	<span style="color: green;">43◇</span>	
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn	
Contact (Clip)	30μ" Au	30μ" Au	30μ" Au	

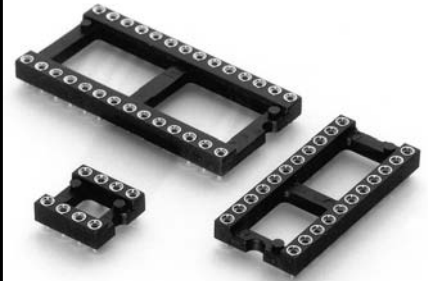


# DUAL-IN-LINE SOCKETS Surface Mount, Stub Tail Open Frame

Series 114



- Unique floating contacts compensate for the effects of unevenly dispensed solder paste.
- High temperature insulator can withstand infra-red reflow and vapor phase soldering.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 114 use MM #1434 pins. See page 133 for details.



Total number of pins				Quantity per tube	<b>Ordering Information</b>	
	A	B	C			

	A	B	C		
10	0.5	0.2	0.3	41	114-XX-210-41-117000
4	0.2	0.3	0.4	100	114-XX-304-41-117000
6	0.3	0.3	0.4	67	114-XX-306-41-117000
8	0.4	0.3	0.4	50	114-XX-308-41-117000
10	0.5	0.3	0.4	40	114-XX-310-41-117000
14	0.7	0.3	0.4	28	114-XX-314-41-117000
16	0.8	0.3	0.4	25	114-XX-316-41-117000
18	0.9	0.3	0.4	22	114-XX-318-41-117000
20	1.0	0.3	0.4	20	114-XX-320-41-117000
22	1.1	0.3	0.4	18	114-XX-322-41-117000
24	1.2	0.3	0.4	16	114-XX-324-41-117000
28	1.4	0.3	0.4	14	114-XX-328-41-117000
20	1.0	0.4	0.5	20	114-XX-420-41-117000
22	1.1	0.4	0.5	18	114-XX-422-41-117000
24	1.2	0.4	0.5	16	114-XX-424-41-117000
28	1.4	0.4	0.5	14	114-XX-428-41-117000
32	1.6	0.4	0.5	12	114-XX-432-41-117000
24	1.2	0.6	0.7	16	114-XX-624-41-117000
28	1.4	0.6	0.7	14	114-XX-628-41-117000
32	1.6	0.6	0.7	12	114-XX-632-41-117000
36	1.8	0.6	0.7	11	114-XX-636-41-117000
40	2.0	0.6	0.7	10	114-XX-640-41-117000
42	2.1	0.6	0.7	9	114-XX-642-41-117000
48	2.4	0.6	0.7	8	114-XX-648-41-117000
50	2.5	0.6	0.7	8	114-XX-650-41-117000
52	2.6	0.6	0.7	7	114-XX-652-41-117000
50	2.5	0.9	1.0	8	114-XX-950-41-117000
52	2.6	0.9	1.0	7	114-XX-952-41-117000
64	3.2	0.9	1.0	6	114-XX-964-41-117000



For RoHS compliance select ◇ plating code.

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

SPECIFY PLATING CODE XX=		<b>93</b>		<b>43◇</b>	
Sleeve (Pin)		200μ" Sn/Pb		200μ" Sn	
Contact (Clip)		30μ" Au		30μ" Au	

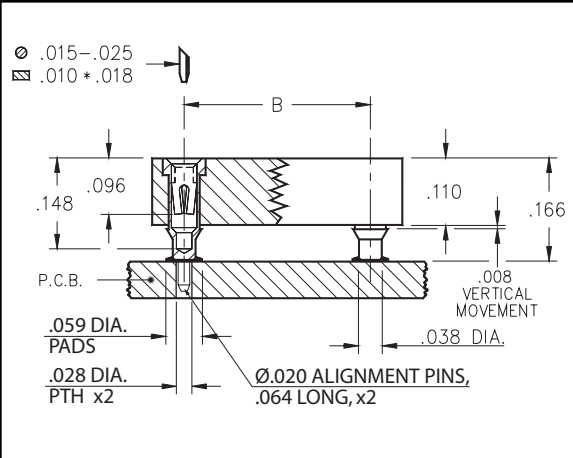
Downloaded from Arrow.com



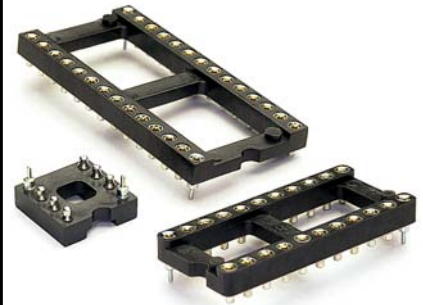
# DUAL-IN-LINE SOCKETS

## Surface Mount, Stub Tail, with Alignment Pins for Hand Placement

Series 113



- Unique floating contacts compensate for the effects of unevenly dispensed solder paste.
- Two corner alignment pins (power & ground positions) permit manual placement.
- High temperature insulator can withstand infra-red reflow and vapor phase soldering.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 113 use MM #1334 and #1434 pins. See pages 133 & 142.



<b>Total number of pins</b>	<b>Quantity per tube</b>	<b>Ordering Information</b>		
		<b>A</b>	<b>B</b>	<b>C</b>

10	0.5	0.2	0.3	41	113-XX-210-41-117000
4	0.2	0.3	0.4	100	113-XX-304-41-117000
6	0.3	0.3	0.4	67	113-XX-306-41-117000
8	0.4	0.3	0.4	50	113-XX-308-41-117000
10	0.5	0.3	0.4	40	113-XX-310-41-117000
14	0.7	0.3	0.4	28	113-XX-314-41-117000
16	0.8	0.3	0.4	25	113-XX-316-41-117000
18	0.9	0.3	0.4	22	113-XX-318-41-117000
20	1.0	0.3	0.4	20	113-XX-320-41-117000
22	1.1	0.3	0.4	18	113-XX-322-41-117000
24	1.2	0.3	0.4	16	113-XX-324-41-117000
28	1.4	0.3	0.4	14	113-XX-328-41-117000
20	1.0	0.4	0.5	20	113-XX-420-41-117000
22	1.1	0.4	0.5	18	113-XX-422-41-117000
24	1.2	0.4	0.5	16	113-XX-424-41-117000
28	1.4	0.4	0.5	14	113-XX-428-41-117000
32	1.6	0.4	0.5	12	113-XX-432-41-117000
24	1.2	0.6	0.7	16	113-XX-624-41-117000
28	1.4	0.6	0.7	14	113-XX-628-41-117000
32	1.6	0.6	0.7	12	113-XX-632-41-117000
36	1.8	0.6	0.7	11	113-XX-636-41-117000
40	2.0	0.6	0.7	10	113-XX-640-41-117000
42	2.1	0.6	0.7	9	113-XX-642-41-117000
48	2.4	0.6	0.7	8	113-XX-648-41-117000
50	2.5	0.6	0.7	8	113-XX-650-41-117000
52	2.6	0.6	0.7	7	113-XX-652-41-117000
50	2.5	0.9	1.0	8	113-XX-950-41-117000
52	2.6	0.9	1.0	7	113-XX-952-41-117000
64	3.2	0.9	1.0	6	113-XX-964-41-117000



For RoHS compliance select ◇ plating code.

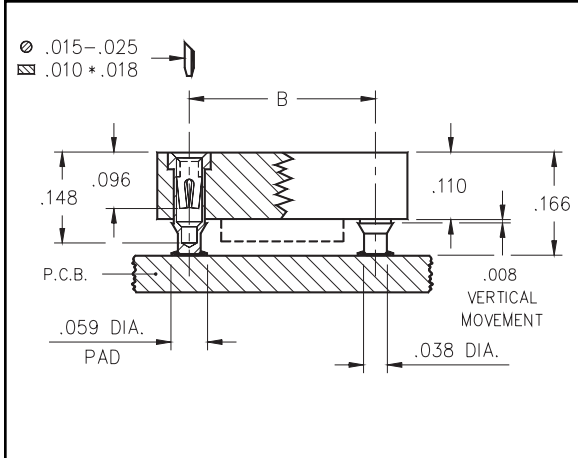
For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

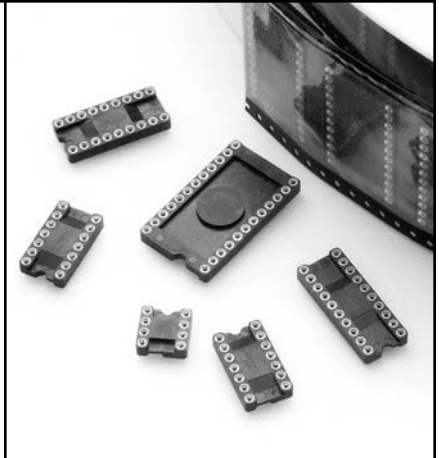
SPECIFY PLATING CODE XX=	<span style="color: green;">13◇</span>		<b>93</b>		<span style="color: green;">43◇</span>	
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb		200μ" Sn	
Contact (Clip)	30μ" Au		30μ" Au		30μ" Au	

Downloaded from Arrow.com





- Unique floating contacts compensate for the effects of unevenly screened solder paste.
- Available packaged in tubes or on tape & reel per EIA-481.
- High temp. Nylon 46 insulator, is suitable for infra-red & vapor phase soldering. Closed frame insulator is vision system compatible.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 214 use MM #1434 pins. See page 133 for details.



## Ordering Information

Total number of pins				Ordering Information				
	A	B	C	QTY PER TUBE	TUBE PACKAGING	TAPE & REEL PACKAGING	TAPE WIDTH (mm)	QTY PER REEL
<b>VACUUM PAD TOP SURFACE ONLY</b>								
6	0.3	0.3	0.4	67	214-XX-306-01-670800	214-XX-306-01-670799	16	750
8	0.4	0.3	0.4	50	214-XX-308-01-670800	214-XX-308-01-670799	16	1000
14	0.7	0.3	0.4	28	214-XX-314-01-670800	214-XX-314-01-670799	32	750
16	0.8	0.3	0.4	25	214-XX-316-01-670800	214-XX-316-01-670799	32	750
18	0.9	0.3	0.4	22	214-XX-318-01-670800	214-XX-318-01-670799	44	750
20	1.0	0.3	0.4	20	214-XX-320-01-670800	214-XX-320-01-670799	44	750
<b>VACUUM PAD TOP AND BOTTOM</b>								
24	1.2	0.6	0.7	16	214-XX-624-01-670800	214-XX-624-01-670799	44	400
28	1.4	0.6	0.7	14	214-XX-628-01-670800	214-XX-628-01-670799	56	400
32	1.6	0.6	0.7	12	214-XX-632-01-670800	214-XX-632-01-670799	56	400
40	2.0	0.6	0.7	10	214-XX-640-01-670800	NOT AVAILABLE		

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

RoHS 2002/95/EC

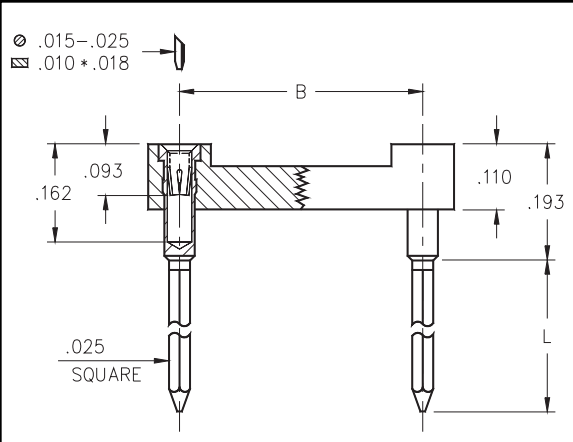
SPECIFY PLATING CODE XX=				<b>99</b>			<b>44◇</b>
Sleeve (Pin)				200μ" Sn/Pb			200μ" Sn
Contact (Clip)				200μ" Sn/Pb			200μ" Sn

Downloaded from [Arrow.com](http://Arrow.com)



# DUAL-IN-LINE SOCKETS 1 thru 4 Level Wrapost Open Frame

Series 121, 122, 123, 124



- Solderless wrapost terminals are firmly locked in the insulator body to withstand torque of a wrapping tool.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 121, 122, 123 and 124 use MM #0040, #0086, #0088 and #0089 pins. See page 166 for details.
- Insulators are high temperature thermoplastic.



For Electrical,  
Mechanical & Environmental  
Data, See pg. 4

## Ordering Information

XX=Plating Code  
See Below

Total number of pins				Quantity per tube	1 Level Wrapost	2 Level Wrapost	3 Level Wrapost	4 Level Wrapost
	A	B	C		L = .260	L = .370	L = .510	L = .630
10	0.5	0.2	0.3	40	121-13-210-41-001000	122-13-210-41-001000	123-XX-210-41-001000	124-XX-210-41-002000
4	0.2	0.3	0.4	102	121-13-304-41-001000	122-13-304-41-001000	123-XX-304-41-001000	124-XX-304-41-002000
6	0.3	0.3	0.4	67	121-13-306-41-001000	122-13-306-41-001000	123-XX-306-41-001000	124-XX-306-41-002000
8	0.4	0.3	0.4	50	121-13-308-41-001000	122-13-308-41-001000	123-XX-308-41-001000	124-XX-308-41-002000
10	0.5	0.3	0.4	40	121-13-310-41-001000	122-13-310-41-001000	123-XX-310-41-001000	124-XX-310-41-002000
14	0.7	0.3	0.4	28	121-13-314-41-001000	122-13-314-41-001000	123-XX-314-41-001000	124-XX-314-41-002000
16	0.8	0.3	0.4	25	121-13-316-41-001000	122-13-316-41-001000	123-XX-316-41-001000	124-XX-316-41-002000
18	0.9	0.3	0.4	22	121-13-318-41-001000	122-13-318-41-001000	123-XX-318-41-001000	124-XX-318-41-002000
20	1.0	0.3	0.4	20	121-13-320-41-001000	122-13-320-41-001000	123-XX-320-41-001000	124-XX-320-41-002000
22	1.1	0.3	0.4	18	121-13-322-41-001000	122-13-322-41-001000	123-XX-322-41-001000	124-XX-322-41-002000
24	1.2	0.3	0.4	16	121-13-324-41-001000	122-13-324-41-001000	123-XX-324-41-001000	124-XX-324-41-002000
28	1.4	0.3	0.4	14	121-13-328-41-001000	122-13-328-41-001000	123-XX-328-41-001000	124-XX-328-41-002000
20	1.0	0.4	0.5	20	121-13-420-41-001000	122-13-420-41-001000	123-XX-420-41-001000	124-XX-420-41-002000
22	1.1	0.4	0.5	18	121-13-422-41-001000	122-13-422-41-001000	123-XX-422-41-001000	124-XX-422-41-002000
24	1.2	0.4	0.5	16	121-13-424-41-001000	122-13-424-41-001000	123-XX-424-41-001000	124-XX-424-41-002000
28	1.4	0.4	0.5	14	121-13-428-41-001000	122-13-428-41-001000	123-XX-428-41-001000	124-XX-428-41-002000
32	1.6	0.4	0.5	12	121-13-432-41-001000	122-13-432-41-001000	123-XX-432-41-001000	124-XX-432-41-002000
24	1.2	0.6	0.7	16	121-13-624-41-001000	122-13-624-41-001000	123-XX-624-41-001000	124-XX-624-41-002000
28	1.4	0.6	0.7	14	121-13-628-41-001000	122-13-628-41-001000	123-XX-628-41-001000	124-XX-628-41-002000
32	1.6	0.6	0.7	12	121-13-632-41-001000	122-13-632-41-001000	123-XX-632-41-001000	124-XX-632-41-002000
36	1.8	0.6	0.7	11	121-13-636-41-001000	122-13-636-41-001000	123-XX-636-41-001000	124-XX-636-41-002000
40	2.0	0.6	0.7	10	121-13-640-41-001000	122-13-640-41-001000	123-XX-640-41-001000	124-XX-640-41-002000
42	2.1	0.6	0.7	9	121-13-642-41-001000	122-13-642-41-001000	123-XX-642-41-001000	124-XX-642-41-002000
48	2.4	0.6	0.7	8	121-13-648-41-001000	122-13-648-41-001000	123-XX-648-41-001000	124-XX-648-41-002000
50	2.5	0.6	0.7	8	121-13-650-41-001000	122-13-650-41-001000	123-XX-650-41-001000	124-XX-650-41-002000
52	2.6	0.6	0.7	7	121-13-652-41-001000	122-13-652-41-001000	123-XX-652-41-001000	124-XX-652-41-002000
50	2.5	0.9	1.0	8	121-13-950-41-001000	122-13-950-41-001000	123-XX-950-41-001000	124-XX-950-41-002000
52	2.6	0.9	1.0	7	121-13-952-41-001000	122-13-952-41-001000	123-XX-952-41-001000	124-XX-952-41-002000
64	3.2	0.9	1.0	6	121-13-964-41-001000	122-13-964-41-001000	123-XX-964-41-001000	124-XX-964-41-002000

SPECIFY PLATING CODE XX=	13◇	93	43◇
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au	30μ" Au

For RoHS compliance select ◇ plating code.

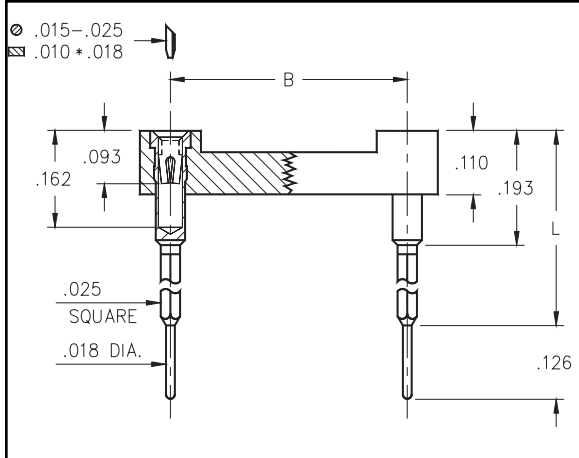
Downloaded from Arrow.com



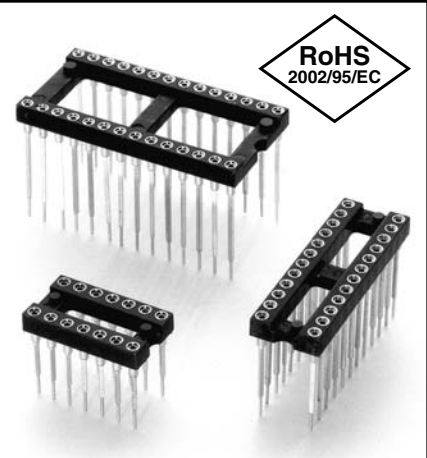
# DUAL-IN-LINE SOCKETS

## Pluggable Wrapost Open Frame

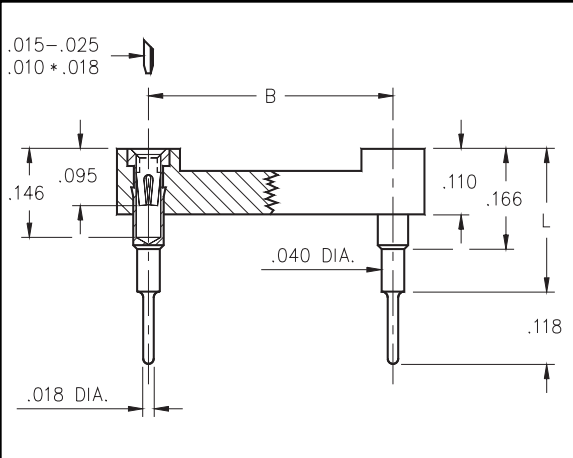
Series 126



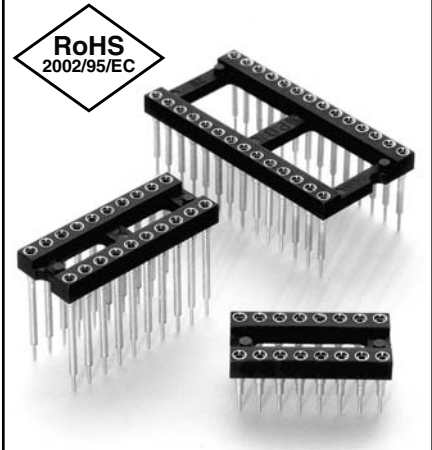
- Combines one through three level wrapost with pluggable solder tails.
- Suitable for use as an interconnect socket with intermediate wire wrapped connections.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 126 use MM #2601, #2602 & #2603 pins. See page 167 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	<b>Ordering Information</b> <i>For Electrical, Mechanical &amp; Environmental Data, See pg. 4</i> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">XX=Plating Code See Below</span>			
	A	B	C		L = .425 (1 level = .232)	L = .543 (2 level = .350)	L = .661 (3 level = .469)	
	10	0.5	0.2		0.3	40	126-XX-210-41-001000	126-XX-210-41-002000
4	0.2	0.3	0.4	102	126-XX-304-41-001000	126-XX-304-41-002000	126-XX-304-41-003000	
6	0.3	0.3	0.4	67	126-XX-306-41-001000	126-XX-306-41-002000	126-XX-306-41-003000	
8	0.4	0.3	0.4	50	126-XX-308-41-001000	126-XX-308-41-002000	126-XX-308-41-003000	
10	0.5	0.3	0.4	40	126-XX-310-41-001000	126-XX-310-41-002000	126-XX-310-41-003000	
14	0.7	0.3	0.4	28	126-XX-314-41-001000	126-XX-314-41-002000	126-XX-314-41-003000	
16	0.8	0.3	0.4	25	126-XX-316-41-001000	126-XX-316-41-002000	126-XX-316-41-003000	
18	0.9	0.3	0.4	22	126-XX-318-41-001000	126-XX-318-41-002000	126-XX-318-41-003000	
20	1.0	0.3	0.4	20	126-XX-320-41-001000	126-XX-320-41-002000	126-XX-320-41-003000	
22	1.1	0.3	0.4	18	126-XX-322-41-001000	126-XX-322-41-002000	126-XX-322-41-003000	
24	1.2	0.3	0.4	16	126-XX-324-41-001000	126-XX-324-41-002000	126-XX-324-41-003000	
28	1.4	0.3	0.4	14	126-XX-328-41-001000	126-XX-328-41-002000	126-XX-328-41-003000	
20	1.0	0.4	0.5	20	126-XX-420-41-001000	126-XX-420-41-002000	126-XX-420-41-003000	
22	1.1	0.4	0.5	18	126-XX-422-41-001000	126-XX-422-41-002000	126-XX-422-41-003000	
24	1.2	0.4	0.5	16	126-XX-424-41-001000	126-XX-424-41-002000	126-XX-424-41-003000	
28	1.4	0.4	0.5	14	126-XX-428-41-001000	126-XX-428-41-002000	126-XX-428-41-003000	
32	1.6	0.4	0.5	12	126-XX-432-41-001000	126-XX-432-41-002000	126-XX-432-41-003000	
24	1.2	0.6	0.7	16	126-XX-624-41-001000	126-XX-624-41-002000	126-XX-624-41-003000	
28	1.4	0.6	0.7	14	126-XX-628-41-001000	126-XX-628-41-002000	126-XX-628-41-003000	
32	1.6	0.6	0.7	12	126-XX-632-41-001000	126-XX-632-41-002000	126-XX-632-41-003000	
36	1.8	0.6	0.7	11	126-XX-636-41-001000	126-XX-636-41-002000	126-XX-636-41-003000	
40	2.0	0.6	0.7	10	126-XX-640-41-001000	126-XX-640-41-002000	126-XX-640-41-003000	
42	2.1	0.6	0.7	9	126-XX-642-41-001000	126-XX-642-41-002000	126-XX-642-41-003000	
48	2.4	0.6	0.7	8	126-XX-648-41-001000	126-XX-648-41-002000	126-XX-648-41-003000	
50	2.5	0.6	0.7	8	126-XX-650-41-001000	126-XX-650-41-002000	126-XX-650-41-003000	
52	2.6	0.6	0.7	7	126-XX-652-41-001000	126-XX-652-41-002000	126-XX-652-41-003000	
50	2.5	0.9	1.0	8	126-XX-950-41-001000	126-XX-950-41-002000	126-XX-950-41-003000	
52	2.6	0.9	1.0	7	126-XX-952-41-001000	126-XX-952-41-002000	126-XX-952-41-003000	
64	3.2	0.9	1.0	6	126-XX-964-41-001000	126-XX-964-41-002000	126-XX-964-41-003000	
SPECIFY PLATING CODE XX=						<b>93</b>	<b>43</b> ◇	
Sleeve (Pin)						200µ" Sn/Pb	200µ" Sn	For RoHS compliance select ◇ plating code.
Contact (Clip)						30µ" Au	30µ" Au	



- For mechanical and electrical interconnection and stacking of PCBs.
- Other platings and heights are available upon request.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 116 use MM #0153-X pins. See page 138 for details.
- Insulators are high temperature thermoplastic.



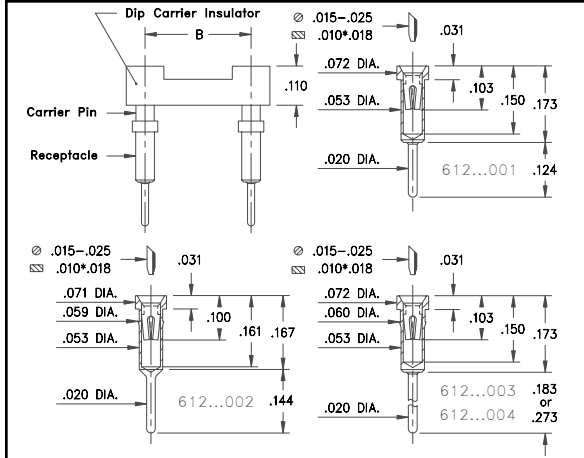
*For Electrical,  
Mechanical & Environmental  
Data, See pg. 4*

Ordering Information

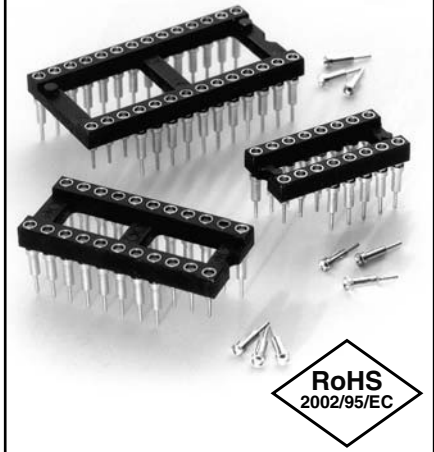
*XX=Plating Code  
See Below*

Total number of pins	Pin Spacing			Quantity per tube	Ordering Information				
	A	B	C		L = .236	L = .315	L = .402	L = .472	L = .594
10	0.5	0.2	0.3	40	116-XX-210-41-006000	116-XX-210-41-003000	116-XX-210-41-007000	116-XX-210-41-008000	116-XX-210-41-001000
4	0.2	0.3	0.4	102	116-XX-304-41-006000	116-XX-304-41-003000	116-XX-304-41-007000	116-XX-304-41-008000	116-XX-304-41-001000
6	0.3	0.3	0.4	67	116-XX-306-41-006000	116-XX-306-41-003000	116-XX-306-41-007000	116-XX-306-41-008000	116-XX-306-41-001000
8	0.4	0.3	0.4	50	116-XX-308-41-006000	116-XX-308-41-003000	116-XX-308-41-007000	116-XX-308-41-008000	116-XX-308-41-001000
10	0.5	0.3	0.4	40	116-XX-310-41-006000	116-XX-310-41-003000	116-XX-310-41-007000	116-XX-310-41-008000	116-XX-310-41-001000
14	0.7	0.3	0.4	28	116-XX-314-41-006000	116-XX-314-41-003000	116-XX-314-41-007000	116-XX-314-41-008000	116-XX-314-41-001000
16	0.8	0.3	0.4	25	116-XX-316-41-006000	116-XX-316-41-003000	116-XX-316-41-007000	116-XX-316-41-008000	116-XX-316-41-001000
18	0.9	0.3	0.4	22	116-XX-318-41-006000	116-XX-318-41-003000	116-XX-318-41-007000	116-XX-318-41-008000	116-XX-318-41-001000
20	1.0	0.3	0.4	20	116-XX-320-41-006000	116-XX-320-41-003000	116-XX-320-41-007000	116-XX-320-41-008000	116-XX-320-41-001000
22	1.1	0.3	0.4	18	116-XX-322-41-006000	116-XX-322-41-003000	116-XX-322-41-007000	116-XX-322-41-008000	116-XX-322-41-001000
24	1.2	0.3	0.4	16	116-XX-324-41-006000	116-XX-324-41-003000	116-XX-324-41-007000	116-XX-324-41-008000	116-XX-324-41-001000
28	1.4	0.3	0.4	14	116-XX-328-41-006000	116-XX-328-41-003000	116-XX-328-41-007000	116-XX-328-41-008000	116-XX-328-41-001000
20	1.0	0.4	0.5	20	116-XX-420-41-006000	116-XX-420-41-003000	116-XX-420-41-007000	116-XX-420-41-008000	116-XX-420-41-001000
22	1.1	0.4	0.5	18	116-XX-422-41-006000	116-XX-422-41-003000	116-XX-422-41-007000	116-XX-422-41-008000	116-XX-422-41-001000
24	1.2	0.4	0.5	16	116-XX-424-41-006000	116-XX-424-41-003000	116-XX-424-41-007000	116-XX-424-41-008000	116-XX-424-41-001000
28	1.4	0.4	0.5	14	116-XX-428-41-006000	116-XX-428-41-003000	116-XX-428-41-007000	116-XX-428-41-008000	116-XX-428-41-001000
32	1.6	0.4	0.5	12	116-XX-432-41-006000	116-XX-432-41-003000	116-XX-432-41-007000	116-XX-432-41-008000	116-XX-432-41-001000
24	1.2	0.6	0.7	16	116-XX-624-41-006000	116-XX-624-41-003000	116-XX-624-41-007000	116-XX-624-41-008000	116-XX-624-41-001000
28	1.4	0.6	0.7	14	116-XX-628-41-006000	116-XX-628-41-003000	116-XX-628-41-007000	116-XX-628-41-008000	116-XX-628-41-001000
32	1.6	0.6	0.7	12	116-XX-632-41-006000	116-XX-632-41-003000	116-XX-632-41-007000	116-XX-632-41-008000	116-XX-632-41-001000
36	1.8	0.6	0.7	11	116-XX-636-41-006000	116-XX-636-41-003000	116-XX-636-41-007000	116-XX-636-41-008000	116-XX-636-41-001000
40	2.0	0.6	0.7	10	116-XX-640-41-006000	116-XX-640-41-003000	116-XX-640-41-007000	116-XX-640-41-008000	116-XX-640-41-001000
42	2.1	0.6	0.7	9	116-XX-642-41-006000	116-XX-642-41-003000	116-XX-642-41-007000	116-XX-642-41-008000	116-XX-642-41-001000
48	2.4	0.6	0.7	8	116-XX-648-41-006000	116-XX-648-41-003000	116-XX-648-41-007000	116-XX-648-41-008000	116-XX-648-41-001000
50	2.5	0.6	0.7	8	116-XX-650-41-006000	116-XX-650-41-003000	116-XX-650-41-007000	116-XX-650-41-008000	116-XX-650-41-001000
52	2.6	0.6	0.7	7	116-XX-652-41-006000	116-XX-652-41-003000	116-XX-652-41-007000	116-XX-652-41-008000	116-XX-652-41-001000
50	2.5	0.9	1.0	8	116-XX-950-41-006000	116-XX-950-41-003000	116-XX-950-41-007000	116-XX-950-41-008000	116-XX-950-41-001000
52	2.6	0.9	1.0	7	116-XX-952-41-006000	116-XX-952-41-003000	116-XX-952-41-007000	116-XX-952-41-008000	116-XX-952-41-001000
64	3.2	0.9	1.0	6	116-XX-964-41-006000	116-XX-964-41-003000	116-XX-964-41-007000	116-XX-964-41-008000	116-XX-964-41-001000

SPECIFY PLATING CODE XX=	<b>93</b>	<b>43</b>	
Sleeve (Pin)	200µ" Sn/Pb	200µ" Sn	<i>For RoHS compliance select  plating code.</i>
Contact (Clip)	30µ" Au	30µ" Au	

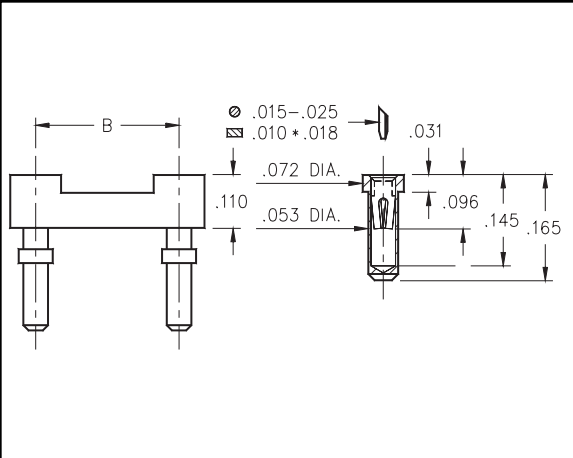


- Convenient way to load loose receptacles on a PC board.
- Removable plastic carriers can be returned for reloading.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 612 use MM #0132, #0135, #0255 or #8855 pins. See pages 136 and 142 for details.
- Insulators are high temperature thermoplastic.

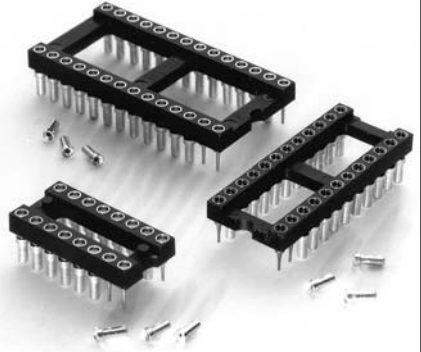


Total number of pins				Quantity per tube	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; text-align: center;"> <i>For Electrical, Mechanical &amp; Environmental Data, See pg. 4</i> </div> <div style="text-align: center;"> <h2>Ordering Information</h2> </div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; text-align: center;"> <i>XX=Plating Code See Below</i> </div> </div>			
	A	B	C		Tail Length = .124 (.022 Min. Mounting Hole)	Tail Length = .144 (.022 Min. Mounting hole)	Tail Length = .183 (.022 Min. Mounting hole)	Tail Length = .273 (.022 Min. Mounting hole)
	10	0.5	0.2		0.3	40	612-XX-210-41-001000	612-XX-210-41-002000
4	0.2	0.3	0.4	102	612-XX-304-41-001000	612-XX-304-41-002000	612-XX-304-41-003000	612-XX-304-41-004000
6	0.3	0.3	0.4	68	612-XX-306-41-001000	612-XX-306-41-002000	612-XX-306-41-003000	612-XX-306-41-004000
8	0.4	0.3	0.4	50	612-XX-308-41-001000	612-XX-308-41-002000	612-XX-308-41-003000	612-XX-308-41-004000
10	0.5	0.3	0.4	40	612-XX-310-41-001000	612-XX-310-41-002000	612-XX-310-41-003000	612-XX-310-41-004000
14	0.7	0.3	0.4	28	612-XX-314-41-001000	612-XX-314-41-002000	612-XX-314-41-003000	612-XX-314-41-004000
16	0.8	0.3	0.4	25	612-XX-316-41-001000	612-XX-316-41-002000	612-XX-316-41-003000	612-XX-316-41-004000
18	0.9	0.3	0.4	22	612-XX-318-41-001000	612-XX-318-41-002000	612-XX-318-41-003000	612-XX-318-41-004000
20	1.0	0.3	0.4	20	612-XX-320-41-001000	612-XX-320-41-002000	612-XX-320-41-003000	612-XX-320-41-004000
22	1.1	0.3	0.4	18	612-XX-322-41-001000	612-XX-322-41-002000	612-XX-322-41-003000	612-XX-322-41-004000
24	1.2	0.3	0.4	16	612-XX-324-41-001000	612-XX-324-41-002000	612-XX-324-41-003000	612-XX-324-41-004000
28	1.4	0.3	0.4	14	612-XX-328-41-001000	612-XX-328-41-002000	612-XX-328-41-003000	612-XX-328-41-004000
20	1.0	0.4	0.5	20	612-XX-420-41-001000	612-XX-420-41-002000	612-XX-420-41-003000	612-XX-420-41-004000
22	1.1	0.4	0.5	18	612-XX-422-41-001000	612-XX-422-41-002000	612-XX-422-41-003000	612-XX-422-41-004000
24	1.2	0.4	0.5	16	612-XX-424-41-001000	612-XX-424-41-002000	612-XX-424-41-003000	612-XX-424-41-004000
28	1.4	0.4	0.5	14	612-XX-428-41-001000	612-XX-428-41-002000	612-XX-428-41-003000	612-XX-428-41-004000
32	1.6	0.4	0.5	12	612-XX-432-41-001000	612-XX-432-41-002000	612-XX-432-41-003000	612-XX-432-41-004000
24	1.2	0.6	0.7	16	612-XX-624-41-001000	612-XX-624-41-002000	612-XX-624-41-003000	612-XX-624-41-004000
28	1.4	0.6	0.7	14	612-XX-628-41-001000	612-XX-628-41-002000	612-XX-628-41-003000	612-XX-628-41-004000
32	1.6	0.6	0.7	12	612-XX-632-41-001000	612-XX-632-41-002000	612-XX-632-41-003000	612-XX-632-41-004000
36	1.8	0.6	0.7	11	612-XX-636-41-001000	612-XX-636-41-002000	612-XX-636-41-003000	612-XX-636-41-004000
40	2.0	0.6	0.7	10	612-XX-640-41-001000	612-XX-640-41-002000	612-XX-640-41-003000	612-XX-640-41-004000
42	2.1	0.6	0.7	9	612-XX-642-41-001000	612-XX-642-41-002000	612-XX-642-41-003000	612-XX-642-41-004000
48	2.4	0.6	0.7	8	612-XX-648-41-001000	612-XX-648-41-002000	612-XX-648-41-003000	612-XX-648-41-004000
50	2.5	0.6	0.7	8	612-XX-650-41-001000	612-XX-650-41-002000	612-XX-650-41-003000	612-XX-650-41-004000
52	2.6	0.6	0.7	7	612-XX-652-41-001000	612-XX-652-41-002000	612-XX-652-41-003000	612-XX-652-41-004000
50	2.5	0.9	1.0	8	612-XX-950-41-001000	612-XX-950-41-002000	612-XX-950-41-003000	612-XX-950-41-004000
52	2.6	0.9	1.0	7	612-XX-952-41-001000	612-XX-952-41-002000	612-XX-952-41-003000	612-XX-952-41-004000
64	3.2	0.9	1.0	6	612-XX-964-41-001000	612-XX-964-41-002000	612-XX-964-41-003000	612-XX-964-41-004000

For RoHS compliance select ◇ plating code.



- Convenient way to load loose receptacles on a PC board.
- Removable plastic carriers can be returned for reloading.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 614 use MM #1401 pins. See page 141 for details.
- Insulators are high temperature thermoplastic.



Total number of pins	Pin Spacing			Quantity per tube	Ordering Information
	A	B	C		

Total number of pins	Pin Spacing			Quantity per tube	Ordering Information
	A	B	C		
10	0.5	0.2	0.3	40	614-XX-210-41-001000
4	0.2	0.3	0.4	102	614-XX-304-41-001000
6	0.3	0.3	0.4	67	614-XX-306-41-001000
8	0.4	0.3	0.4	50	614-XX-308-41-001000
10	0.5	0.3	0.4	40	614-XX-310-41-001000
14	0.7	0.3	0.4	28	614-XX-314-41-001000
16	0.8	0.3	0.4	25	614-XX-316-41-001000
18	0.9	0.3	0.4	22	614-XX-318-41-001000
20	1.0	0.3	0.4	20	614-XX-320-41-001000
22	1.1	0.3	0.4	18	614-XX-322-41-001000
24	1.2	0.3	0.4	16	614-XX-324-41-001000
28	1.4	0.3	0.4	14	614-XX-328-41-001000
20	1.0	0.4	0.5	20	614-XX-420-41-001000
22	1.1	0.4	0.5	18	614-XX-422-41-001000
24	1.2	0.4	0.5	16	614-XX-424-41-001000
28	1.4	0.4	0.5	14	614-XX-428-41-001000
32	1.6	0.4	0.5	12	614-XX-432-41-001000
24	1.2	0.6	0.7	16	614-XX-624-41-001000
28	1.4	0.6	0.7	14	614-XX-628-41-001000
32	1.6	0.6	0.7	12	614-XX-632-41-001000
36	1.8	0.6	0.7	11	614-XX-636-41-001000
40	2.0	0.6	0.7	10	614-XX-640-41-001000
42	2.1	0.6	0.7	9	614-XX-642-41-001000
48	2.4	0.6	0.7	8	614-XX-648-41-001000
50	2.5	0.6	0.7	8	614-XX-650-41-001000
52	2.6	0.6	0.7	7	614-XX-652-41-001000
50	2.5	0.9	1.0	8	614-XX-950-41-001000
52	2.6	0.9	1.0	7	614-XX-952-41-001000
64	3.2	0.9	1.0	6	614-XX-964-41-001000

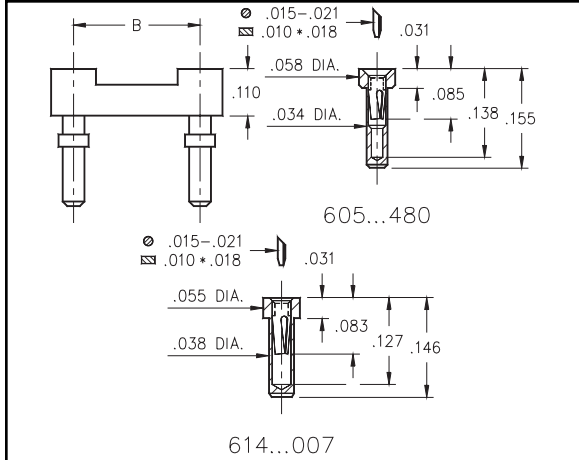


For RoHS compliance select  $\diamond$  plating code.

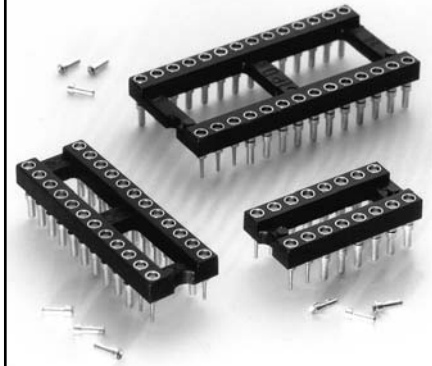
For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

SPECIFY PLATING CODE XX=			<b>93</b>			<b>43</b> $\diamond$	
Sleeve (Pin)			200 $\mu$ " Sn/Pb			200 $\mu$ " Sn	
Contact (Clip)			30 $\mu$ " Au			30 $\mu$ " Au	



- Low profile receptacles sit only .031" high above the board.
- Removable plastic carriers can be returned for reloading.
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 217 for details.
- Series 605 and 614 use MM #0548 & #1407 pins. See page 128 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information		 For RoHS compliance select  plating code.
	A	B	C		Length = .146 (.039 Min. Mounting Hole)	Length = .155 (.035 Min. Mounting Hole)	
	10	0.5	0.2		0.3	40	
4	0.2	0.3	0.4	102	614-XX-304-31-007000	605-XX-304-11-480000	
6	0.3	0.3	0.4	68	614-XX-306-31-007000	605-XX-306-11-480000	
8	0.4	0.3	0.4	50	614-XX-308-31-007000	605-XX-308-11-480000	
10	0.5	0.3	0.4	40	614-XX-310-31-007000	605-XX-310-11-480000	
14	0.7	0.3	0.4	28	614-XX-314-31-007000	605-XX-314-11-480000	
16	0.8	0.3	0.4	25	614-XX-316-31-007000	605-XX-316-11-480000	
18	0.9	0.3	0.4	22	614-XX-318-31-007000	605-XX-318-11-480000	
20	1.0	0.3	0.4	20	614-XX-320-31-007000	605-XX-320-11-480000	
22	1.1	0.3	0.4	18	614-XX-322-31-007000	605-XX-322-11-480000	
24	1.2	0.3	0.4	16	614-XX-324-31-007000	605-XX-324-11-480000	
28	1.4	0.3	0.4	14	614-XX-328-31-007000	605-XX-328-11-480000	
20	1.0	0.4	0.5	20	614-XX-420-31-007000	605-XX-420-11-480000	
22	1.1	0.4	0.5	18	614-XX-422-31-007000	605-XX-422-11-480000	
24	1.2	0.4	0.5	16	614-XX-424-31-007000	605-XX-424-11-480000	
28	1.4	0.4	0.5	14	614-XX-428-31-007000	605-XX-428-11-480000	
32	1.6	0.4	0.5	12	614-XX-432-31-007000	605-XX-432-11-480000	
24	1.2	0.6	0.7	16	614-XX-624-31-007000	605-XX-624-11-480000	
28	1.4	0.6	0.7	14	614-XX-628-31-007000	605-XX-628-11-480000	
32	1.6	0.6	0.7	12	614-XX-632-31-007000	605-XX-632-11-480000	
36	1.8	0.6	0.7	11	614-XX-636-31-007000	605-XX-636-11-480000	
40	2.0	0.6	0.7	10	614-XX-640-31-007000	605-XX-640-11-480000	
42	2.1	0.6	0.7	9	614-XX-642-31-007000	605-XX-642-11-480000	
48	2.4	0.6	0.7	8	614-XX-648-31-007000	605-XX-648-11-480000	
50	2.5	0.6	0.7	8	614-XX-650-31-007000	605-XX-650-11-480000	
52	2.6	0.6	0.7	7	614-XX-652-31-007000	605-XX-652-11-480000	
50	2.5	0.9	1.0	8	614-XX-950-31-007000	605-XX-950-11-480000	
52	2.6	0.9	1.0	7	614-XX-952-31-007000	605-XX-952-11-480000	
64	3.2	0.9	1.0	6	614-XX-964-31-007000	605-XX-964-11-480000	

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

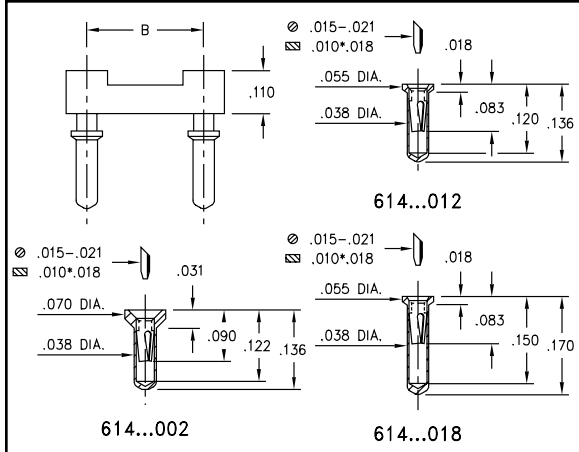


# DUAL-IN-LINE SOCKETS

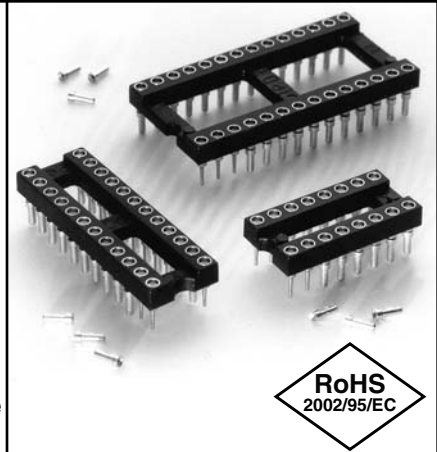
## Carrier Type

### Ultra Low Profile

Series 614



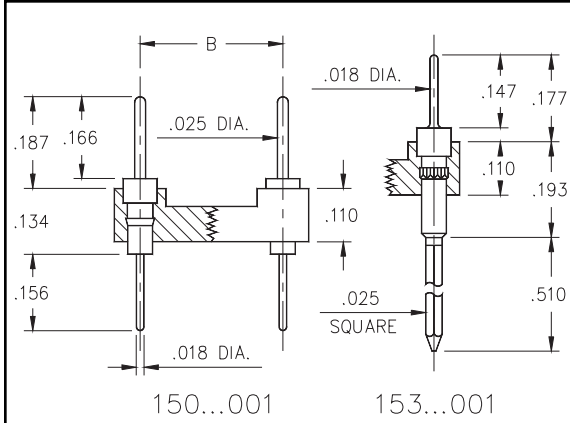
- Ultra low profile receptacles sit only .018" to .031" high above the board.
- Removable plastic carriers can be returned for reloading.
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 217 for details.
- Series 614 use MM #0552-1, #0552-2 or #0442-0 pins. See pages 128 and 129 for details.
- Insulators are high temperature thermoplastic.



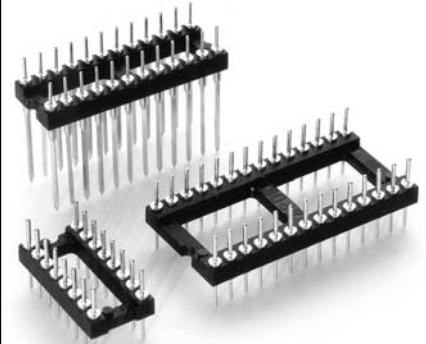
Total number of pins				Quantity per tube	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> <i>For Electrical, Mechanical &amp; Environmental Data, See pg. 4</i> </div>			<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> <b>Ordering Information</b> </div>			<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> <i>XX=Plating Code See Below</i> </div>		
	A	B	C		Length = .136 (.039 Min. Mounting Hole)			Length = .136 (.039 Min. Mounting Hole)			Length = .170 (.039 Min. Mounting Hole)		
10	0.5	0.2	0.3	40	614-XX-210-31-012000	614-XX-210-31-002000	614-XX-210-31-018000						
4	0.2	0.3	0.4	102	614-XX-304-31-012000	614-XX-304-31-002000	614-XX-304-31-018000						
6	0.3	0.3	0.4	67	614-XX-306-31-012000	614-XX-306-31-002000	614-XX-306-31-018000						
8	0.4	0.3	0.4	50	614-XX-308-31-012000	614-XX-308-31-002000	614-XX-308-31-018000						
10	0.5	0.3	0.4	40	614-XX-310-31-012000	614-XX-310-31-002000	614-XX-310-31-018000						
14	0.7	0.3	0.4	28	614-XX-314-31-012000	614-XX-314-31-002000	614-XX-314-31-018000						
16	0.8	0.3	0.4	25	614-XX-316-31-012000	614-XX-316-31-002000	614-XX-316-31-018000						
18	0.9	0.3	0.4	22	614-XX-318-31-012000	614-XX-318-31-002000	614-XX-318-31-018000						
20	1.0	0.3	0.4	20	614-XX-320-31-012000	614-XX-320-31-002000	614-XX-320-31-018000						
22	1.1	0.3	0.4	18	614-XX-322-31-012000	614-XX-322-31-002000	614-XX-322-31-018000						
24	1.2	0.3	0.4	16	614-XX-324-31-012000	614-XX-324-31-002000	614-XX-324-31-018000						
28	1.4	0.3	0.4	14	614-XX-328-31-012000	614-XX-328-31-002000	614-XX-328-31-018000						
20	1.0	0.4	0.5	20	614-XX-420-31-012000	614-XX-420-31-002000	614-XX-420-31-018000						
22	1.1	0.4	0.5	18	614-XX-422-31-012000	614-XX-422-31-002000	614-XX-422-31-018000						
24	1.2	0.4	0.5	16	614-XX-424-31-012000	614-XX-424-31-002000	614-XX-424-31-018000						
28	1.4	0.4	0.5	14	614-XX-428-31-012000	614-XX-428-31-002000	614-XX-428-31-018000						
32	1.6	0.4	0.5	12	614-XX-432-31-012000	614-XX-432-31-002000	614-XX-432-31-018000						
24	1.2	0.6	0.7	16	614-XX-624-31-012000	614-XX-624-31-002000	614-XX-624-31-018000						
28	1.4	0.6	0.7	14	614-XX-628-31-012000	614-XX-628-31-002000	614-XX-628-31-018000						
32	1.6	0.6	0.7	12	614-XX-632-31-012000	614-XX-632-31-002000	614-XX-632-31-018000						
36	1.8	0.6	0.7	11	614-XX-636-31-012000	614-XX-636-31-002000	614-XX-636-31-018000						
40	2.0	0.6	0.7	10	614-XX-640-31-012000	614-XX-640-31-002000	614-XX-640-31-018000						
42	2.1	0.6	0.7	9	614-XX-642-31-012000	614-XX-642-31-002000	614-XX-642-31-018000						
48	2.4	0.6	0.7	8	614-XX-648-31-012000	614-XX-648-31-002000	614-XX-648-31-018000						
50	2.5	0.6	0.7	8	614-XX-650-31-012000	614-XX-650-31-002000	614-XX-650-31-018000						
52	2.6	0.6	0.7	7	614-XX-652-31-012000	614-XX-652-31-002000	614-XX-652-31-018000						
50	2.5	0.9	1.0	8	614-XX-950-31-012000	614-XX-950-31-002000	614-XX-950-31-018000						
52	2.6	0.9	1.0	7	614-XX-952-31-012000	614-XX-952-31-002000	614-XX-952-31-018000						
64	3.2	0.9	1.0	6	614-XX-964-31-012000	614-XX-964-31-002000	614-XX-964-31-018000						
SPECIFY PLATING CODE XX=						<b>93</b>		<b>43</b>					
Sleeve (Pin)						200µ" Sn/Pb		200µ" Sn		<i>For RoHS compliance select  plating code.</i>			
Contact (Clip)						30µ" Au		30µ" Au					

Downloaded from Arrow.com





- Series 150 DIL Headers are equipped with .025" dia. pins MM #0290. See page 182 for details.
- Series 153 DIL Headers have 3-level wraposts MM #5301. See page 194 for details.
- Both series have .018" dia. solder tails which are pluggable into standard contacts.
- Insulators are high temperature thermoplastic.



Total number of pins	Pin Spacing			Quantity per tube	Ordering Information		
	A	B	C		Solder Tail	3 Level Wrapost	
10	0.5	0.2	0.3	40	150-XX-210-00-001000	153-10-210-00-001000	<div style="text-align: center;"> <p>For RoHS compliance select <span style="color: green;">◇</span> plating code.</p> </div> <div style="text-align: center; margin-top: 20px;"> <p>For Electrical, Mechanical &amp; Environmental Data, See pg. 4</p> </div> <div style="text-align: center; margin-top: 20px;"> <p>XX=Plating Code See Below</p> </div>
4	0.2	0.3	0.4	102	150-XX-304-00-001000	153-10-304-00-001000	
6	0.3	0.3	0.4	67	150-XX-306-00-001000	153-10-306-00-001000	
8	0.4	0.3	0.4	50	150-XX-308-00-001000	153-10-308-00-001000	
10	0.5	0.3	0.4	40	150-XX-310-00-001000	153-10-310-00-001000	
14	0.7	0.3	0.4	29	150-XX-314-00-001000	153-10-314-00-001000	
16	0.8	0.3	0.4	25	150-XX-316-00-001000	153-10-316-00-001000	
18	0.9	0.3	0.4	22	150-XX-318-00-001000	153-10-318-00-001000	
20	1.0	0.3	0.4	20	150-XX-320-00-001000	153-10-320-00-001000	
22	1.1	0.3	0.4	18	150-XX-322-00-001000	153-10-322-00-001000	
24	1.2	0.3	0.4	16	150-XX-324-00-001000	153-10-324-00-001000	
28	1.4	0.3	0.4	14	150-XX-328-00-001000	153-10-328-00-001000	
20	1.0	0.4	0.5	20	150-XX-420-00-001000	153-10-420-00-001000	
22	1.1	0.4	0.5	18	150-XX-422-00-001000	153-10-422-00-001000	
24	1.2	0.4	0.5	16	150-XX-424-00-001000	153-10-424-00-001000	
28	1.4	0.4	0.5	14	150-XX-428-00-001000	153-10-428-00-001000	
32	1.6	0.4	0.5	12	150-XX-432-00-001000	153-10-432-00-001000	
24	1.2	0.6	0.7	16	150-XX-624-00-001000	153-10-624-00-001000	
28	1.4	0.6	0.7	14	150-XX-628-00-001000	153-10-628-00-001000	
32	1.6	0.6	0.7	12	150-XX-632-00-001000	153-10-632-00-001000	
36	1.8	0.6	0.7	11	150-XX-636-00-001000	153-10-636-00-001000	
40	2.0	0.6	0.7	10	150-XX-640-00-001000	153-10-640-00-001000	
42	2.1	0.6	0.7	9	150-XX-642-00-001000	153-10-642-00-001000	
48	2.4	0.6	0.7	8	150-XX-648-00-001000	153-10-648-00-001000	
50	2.5	0.6	0.7	8	150-XX-650-00-001000	153-10-650-00-001000	
52	2.6	0.6	0.7	7	150-XX-652-00-001000	153-10-652-00-001000	
50	2.5	0.9	1.0	8	150-XX-950-00-001000	153-10-950-00-001000	
52	2.6	0.9	1.0	7	150-XX-952-00-001000	153-10-952-00-001000	
64	3.2	0.9	1.0	6	150-XX-964-00-001000	153-10-964-00-001000	

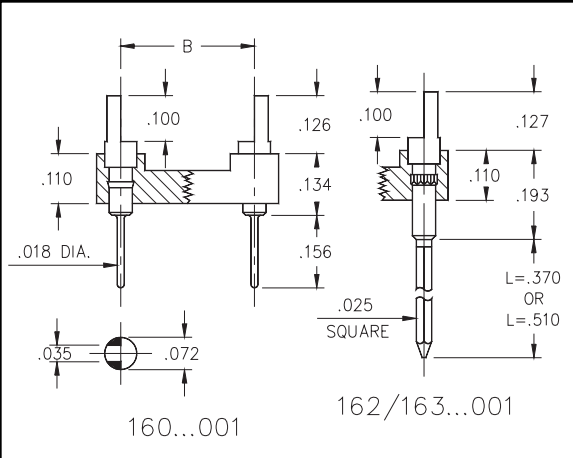
SPECIFY PLATING CODE XX=	<b>10</b> ◇	<b>90</b>	<b>40</b> ◇
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn



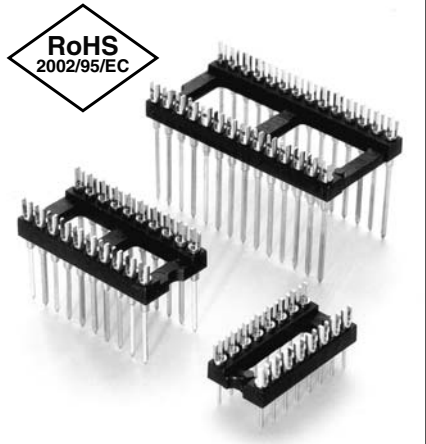
# DUAL-IN-LINE SLOTTED HEADERS

## Solder Tail and Wrapost Open Frame

Series 160, 162, 163



- Series 160, 162, and 163 DIL Headers are equipped with slotted heads to accept wires or component leads.
- Series 160 terminations are pluggable .018" dia. solder tails MM #0282, See page 183 for details. Series 162 and 163 terminations are two or three level wrapposts MM #1106. See page 195 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	<b>Ordering Information</b> <i>For Electrical, Mechanical &amp; Environmental Data, See pg. 4</i> <span style="float: right;">XX=Plating Code See Below</span>		
	A	B	C		Solder Tail	2 Level Wrappost L = .370	3 Level Wrappost L = .510
10	0.5	0.2	0.3	41	160-XX-210-00-001000	162-10-210-00-001000	163-10-210-00-001000
4	0.2	0.3	0.4	102	160-XX-304-00-001000	162-10-304-00-001000	163-10-304-00-001000
6	0.3	0.3	0.4	67	160-XX-306-00-001000	162-10-306-00-001000	163-10-306-00-001000
8	0.4	0.3	0.4	50	160-XX-308-00-001000	162-10-308-00-001000	163-10-308-00-001000
10	0.5	0.3	0.4	40	160-XX-310-00-001000	162-10-310-00-001000	163-10-310-00-001000
14	0.7	0.3	0.4	28	160-XX-314-00-001000	162-10-314-00-001000	163-10-314-00-001000
16	0.8	0.3	0.4	25	160-XX-316-00-001000	162-10-316-00-001000	163-10-316-00-001000
18	0.9	0.3	0.4	22	160-XX-318-00-001000	162-10-318-00-001000	163-10-318-00-001000
20	1.0	0.3	0.4	20	160-XX-320-00-001000	162-10-320-00-001000	163-10-320-00-001000
22	1.0	0.3	0.4	18	160-XX-322-00-001000	162-10-322-00-001000	163-10-322-00-001000
24	1.2	0.3	0.4	16	160-XX-324-00-001000	162-10-324-00-001000	163-10-324-00-001000
28	1.4	0.3	0.4	14	160-XX-328-00-001000	162-10-328-00-001000	163-10-328-00-001000
20	1.0	0.4	0.5	20	160-XX-420-00-001000	162-10-420-00-001000	163-10-420-00-001000
22	1.1	0.4	0.5	18	160-XX-422-00-001000	162-10-422-00-001000	163-10-422-00-001000
24	1.2	0.4	0.5	16	160-XX-424-00-001000	162-10-424-00-001000	163-10-424-00-001000
28	1.4	0.4	0.5	14	160-XX-428-00-001000	162-10-428-00-001000	163-10-428-00-001000
32	1.6	0.4	0.5	12	160-XX-432-00-001000	162-10-432-00-001000	163-10-432-00-001000
24	1.2	0.6	0.7	16	160-XX-624-00-001000	162-10-624-00-001000	163-10-624-00-001000
28	1.4	0.6	0.7	14	160-XX-628-00-001000	162-10-628-00-001000	163-10-628-00-001000
32	1.6	0.6	0.7	12	160-XX-632-00-001000	162-10-632-00-001000	163-10-632-00-001000
36	1.8	0.6	0.7	11	160-XX-636-00-001000	162-10-636-00-001000	163-10-636-00-001000
40	2.0	0.6	0.7	10	160-XX-640-00-001000	162-10-640-00-001000	163-10-640-00-001000
42	2.1	0.6	0.7	9	160-XX-642-00-001000	162-10-642-00-001000	163-10-642-00-001000
48	2.4	0.6	0.7	8	160-XX-648-00-001000	162-10-648-00-001000	163-10-648-00-001000
50	2.5	0.6	0.7	8	160-XX-650-00-001000	162-10-650-00-001000	163-10-650-00-001000
52	2.6	0.6	0.7	7	160-XX-652-00-001000	162-10-652-00-001000	163-10-652-00-001000
50	2.5	0.9	1.0	8	160-XX-950-00-001000	162-10-950-00-001000	163-10-950-00-001000
52	2.6	0.9	1.0	7	160-XX-952-00-001000	162-10-952-00-001000	163-10-952-00-001000
64	3.2	0.9	1.0	6	160-XX-964-00-001000	162-10-964-00-001000	163-10-964-00-001000

<b>For RoHS compliance select <math>\diamond</math> plating code.</b>	SPECIFY PLATING CODE XX=		<b>10</b> $\diamond$	<b>90</b>	<b>40</b> $\diamond$
	Pin Plating	10 $\mu$ " Au	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn	

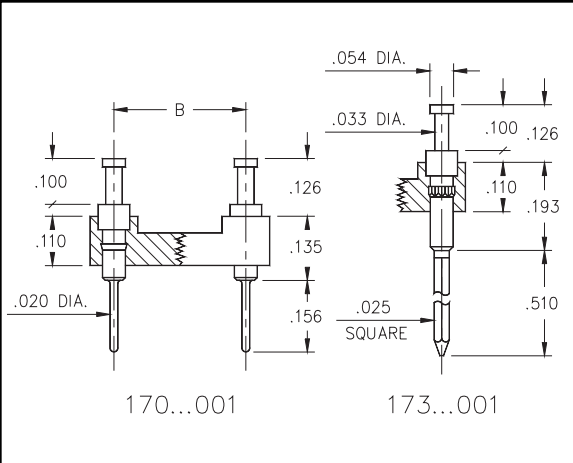
Downloaded from Arrow.com



# DUAL-IN-LINE TURRET HEADERS

## Solder Tail and Wrapost Open Frame

Series 170, 173



- Series 170 & 173 DIL headers are equipped with turret heads for wiring applications.
- Series 170 terminations are pluggable .020" dia. solder tails MM #0700, See page 183 for details. Series 173 terminations are three level wraposts MM #0730. See page 195 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information			
	A	B	C		Solder Tail	3 Level Wrapost		
	10	0.5	0.2		0.3	41	170-XX-210-00-001000	173-10-210-00-001000
4	0.2	0.3	0.4	102	170-XX-304-00-001000	173-10-304-00-001000	<p>For RoHS compliance select  plating code.</p>	
6	0.3	0.3	0.4	67	170-XX-306-00-001000	173-10-306-00-001000		
8	0.4	0.3	0.4	50	170-XX-308-00-001000	173-10-308-00-001000		
10	0.5	0.3	0.4	40	170-XX-310-00-001000	173-10-310-00-001000		
14	0.7	0.3	0.4	28	170-XX-314-00-001000	173-10-314-00-001000		
16	0.8	0.3	0.4	25	170-XX-316-00-001000	173-10-316-00-001000		
18	0.9	0.3	0.4	22	170-XX-318-00-001000	173-10-318-00-001000		
20	1.0	0.3	0.4	20	170-XX-320-00-001000	173-10-320-00-001000		
22	1.1	0.3	0.4	18	170-XX-322-00-001000	173-10-322-00-001000		
24	1.2	0.3	0.4	16	170-XX-324-00-001000	173-10-324-00-001000		
28	1.4	0.3	0.4	14	170-XX-328-00-001000	173-10-328-00-001000		
20	1.0	0.4	0.5	20	170-XX-420-00-001000	173-10-420-00-001000		
22	1.1	0.4	0.5	18	170-XX-422-00-001000	173-10-422-00-001000		
24	1.2	0.4	0.5	16	170-XX-424-00-001000	173-10-424-00-001000		
28	1.4	0.4	0.5	14	170-XX-428-00-001000	173-10-428-00-001000		
32	1.6	0.4	0.5	12	170-XX-432-00-001000	173-10-432-00-001000		
24	1.2	0.6	0.7	16	170-XX-624-00-001000	173-10-624-00-001000		
28	1.4	0.6	0.7	14	170-XX-628-00-001000	173-10-628-00-001000		
32	1.6	0.6	0.7	12	170-XX-632-00-001000	173-10-632-00-001000		
36	1.8	0.6	0.7	11	170-XX-636-00-001000	173-10-636-00-001000		
40	2.0	0.6	0.7	10	170-XX-640-00-001000	173-10-640-00-001000		
42	2.1	0.6	0.7	9	170-XX-642-00-001000	173-10-642-00-001000		
48	2.4	0.6	0.7	8	170-XX-648-00-001000	173-10-648-00-001000		
50	2.5	0.6	0.7	8	170-XX-650-00-001000	173-10-650-00-001000		
52	2.6	0.6	0.7	7	170-XX-652-00-001000	173-10-652-00-001000		
50	2.5	0.9	1.0	8	170-XX-950-00-001000	173-10-950-00-001000		
52	2.6	0.9	1.0	7	170-XX-952-00-001000	173-10-952-00-001000		
64	3.2	0.9	1.0	6	170-XX-964-00-001000	173-10-964-00-001000		
SPECIFY PLATING CODE XX=					10	90	40	
Pin Plating					10μ" Au	200μ" Sn/Pb	200μ" Sn	

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

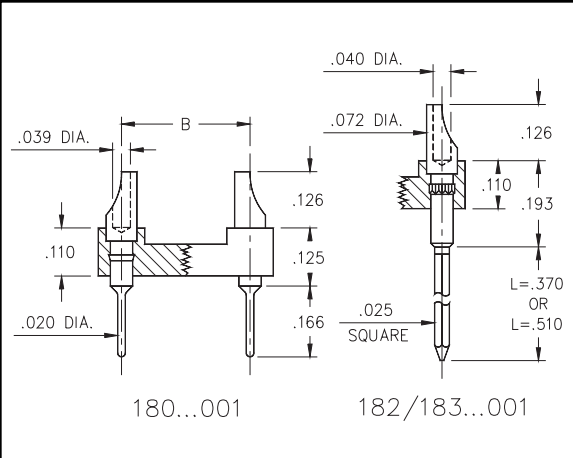
Downloaded from Arrow.com



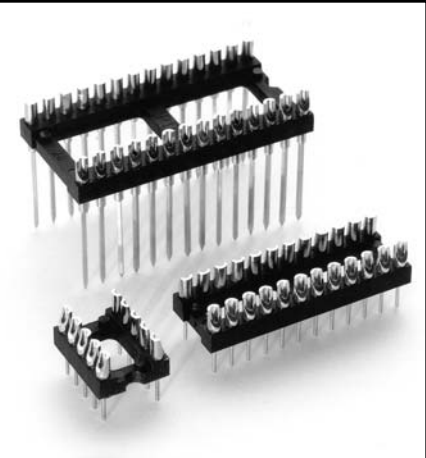
# DUAL-IN-LINE SOLDER CUP HEADERS

## Solder Tail and Wrapost Open Frame

Series 180, 182, 183



- Series 180, 182, and 183 DIL Headers are equipped with solder cups for wiring applications.
- Series 180 terminations are pluggable .020" dia. solder tails MM #8000, See page 183 for details. Series 182 and 183 terminations are two or three level wrapposts MM #8301. See page 194 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">                     For Electrical, Mechanical &amp; Environmental Data, See pg. 4                 </div>			<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>Ordering Information</b> </div>			<div style="border: 1px solid black; padding: 5px; display: inline-block;">                     RoHS 2002/95/EC                 </div>		
	A	B	C		Solder Tail	2 Level Wrappost L = .370	3 Level Wrappost L = .510						
10	0.5	0.2	0.3	41	180-10-210-00-001000	182-10-210-00-001000	183-10-210-00-001000						
4	0.2	0.3	0.4	102	180-10-304-00-001000	182-10-304-00-001000	183-10-304-00-001000						
6	0.3	0.3	0.4	67	180-10-306-00-001000	182-10-306-00-001000	183-10-306-00-001000						
8	0.4	0.3	0.4	50	180-10-308-00-001000	182-10-308-00-001000	183-10-308-00-001000						
10	0.5	0.3	0.4	40	180-10-310-00-001000	182-10-310-00-001000	183-10-310-00-001000						
14	0.7	0.3	0.4	28	180-10-314-00-001000	182-10-314-00-001000	183-10-314-00-001000						
16	0.8	0.3	0.4	25	180-10-316-00-001000	182-10-316-00-001000	183-10-316-00-001000						
18	0.9	0.3	0.4	22	180-10-318-00-001000	182-10-318-00-001000	183-10-318-00-001000						
20	1.0	0.3	0.4	20	180-10-320-00-001000	182-10-320-00-001000	183-10-320-00-001000						
22	1.1	0.3	0.4	18	180-10-322-00-001000	182-10-322-00-001000	183-10-322-00-001000						
24	1.2	0.3	0.4	16	180-10-324-00-001000	182-10-324-00-001000	183-10-324-00-001000						
28	1.4	0.3	0.4	14	180-10-328-00-001000	182-10-328-00-001000	183-10-328-00-001000						
20	1.0	0.4	0.5	20	180-10-420-00-001000	182-10-420-00-001000	183-10-420-00-001000						
22	1.1	0.4	0.5	18	180-10-422-00-001000	182-10-422-00-001000	183-10-422-00-001000						
24	1.2	0.4	0.5	16	180-10-424-00-001000	182-10-424-00-001000	183-10-424-00-001000						
28	1.4	0.4	0.5	14	180-10-428-00-001000	182-10-428-00-001000	183-10-428-00-001000						
32	1.6	0.4	0.5	12	180-10-432-00-001000	182-10-432-00-001000	183-10-432-00-001000						
24	1.2	0.6	0.7	16	180-10-624-00-001000	182-10-624-00-001000	183-10-624-00-001000						
28	1.4	0.6	0.7	14	180-10-628-00-001000	182-10-628-00-001000	183-10-628-00-001000						
32	1.6	0.6	0.7	12	180-10-632-00-001000	182-10-632-00-001000	183-10-632-00-001000						
36	1.8	0.6	0.7	11	180-10-636-00-001000	182-10-636-00-001000	183-10-636-00-001000						
40	2.0	0.6	0.7	10	180-10-640-00-001000	182-10-640-00-001000	183-10-640-00-001000						
42	2.1	0.6	0.7	9	180-10-642-00-001000	182-10-642-00-001000	183-10-642-00-001000						
48	2.4	0.6	0.7	8	180-10-648-00-001000	182-10-648-00-001000	183-10-648-00-001000						
50	2.5	0.6	0.7	8	180-10-650-00-001000	182-10-650-00-001000	183-10-650-00-001000						
52	2.6	0.6	0.7	7	180-10-652-00-001000	182-10-652-00-001000	183-10-652-00-001000						
50	2.5	0.9	1.0	8	180-10-950-00-001000	182-10-950-00-001000	183-10-950-00-001000						
52	2.6	0.9	1.0	7	180-10-952-00-001000	182-10-952-00-001000	183-10-952-00-001000						
64	3.2	0.9	1.0	6	180-10-964-00-001000	182-10-964-00-001000	183-10-964-00-001000						

For RoHS compliance select ◇ plating code.

PLATING CODE = 10◇  
 Pin Plating 10μ" Au

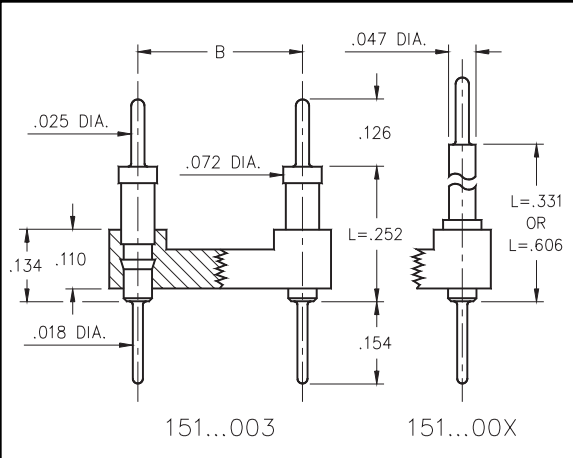
Downloaded from Arrow.com



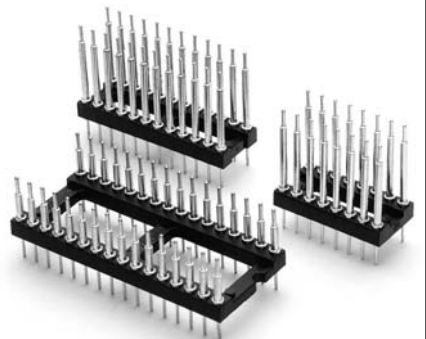
# DUAL-IN-LINE PIN HEADERS

## Interconnect Open Frame

Series 151...003, 004, 005



- Series 151 DIL Headers combine .025" dia. tails with pluggable .018" dia. solder tails.
- Series:  
151...003 use MM #5503 pins  
151...004 use MM #5504 pins  
151...005 use MM #5505 pins  
See page 181 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">                     For Electrical, Mechanical &amp; Environmental Data, See pg. 4                 </div>			<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>Ordering Information</b> </div>			<div style="border: 1px solid black; padding: 5px; display: inline-block;">                     RoHS 2002/95/EC                 </div>		
	A	B	C		L = .252	L = .331	L = .606						
10	0.5	0.2	0.3	41	151-10-210-00-003000	151-10-210-00-004000	151-10-210-00-005000						
4	0.2	0.3	0.4	102	151-10-304-00-003000	151-10-304-00-004000	151-10-304-00-005000						
6	0.3	0.3	0.4	67	151-10-306-00-003000	151-10-306-00-004000	151-10-306-00-005000						
8	0.4	0.3	0.4	50	151-10-308-00-003000	151-10-308-00-004000	151-10-308-00-005000						
10	0.5	0.3	0.4	40	151-10-310-00-003000	151-10-310-00-004000	151-10-310-00-005000						
14	0.7	0.3	0.4	28	151-10-314-00-003000	151-10-314-00-004000	151-10-314-00-005000						
16	0.8	0.3	0.4	25	151-10-316-00-003000	151-10-316-00-004000	151-10-316-00-005000						
18	0.9	0.3	0.4	22	151-10-318-00-003000	151-10-318-00-004000	151-10-318-00-005000						
20	1.0	0.3	0.4	20	151-10-320-00-003000	151-10-320-00-004000	151-10-320-00-005000						
22	1.1	0.3	0.4	18	151-10-322-00-003000	151-10-322-00-004000	151-10-322-00-005000						
24	1.2	0.3	0.4	16	151-10-324-00-003000	151-10-324-00-004000	151-10-324-00-005000						
28	1.4	0.3	0.4	14	151-10-328-00-003000	151-10-328-00-004000	151-10-328-00-005000						
20	1.0	0.4	0.5	20	151-10-420-00-003000	151-10-420-00-004000	151-10-420-00-005000						
22	1.1	0.4	0.5	18	151-10-422-00-003000	151-10-422-00-004000	151-10-422-00-005000						
24	1.2	0.4	0.5	16	151-10-424-00-003000	151-10-424-00-004000	151-10-424-00-005000						
28	1.4	0.4	0.5	14	151-10-428-00-003000	151-10-428-00-004000	151-10-428-00-005000						
32	1.6	0.4	0.5	12	151-10-432-00-003000	151-10-432-00-004000	151-10-432-00-005000						
24	1.2	0.6	0.7	16	151-10-624-00-003000	151-10-624-00-004000	151-10-624-00-005000						
28	1.4	0.6	0.7	14	151-10-628-00-003000	151-10-628-00-004000	151-10-628-00-005000						
32	1.6	0.6	0.7	12	151-10-632-00-003000	151-10-632-00-004000	151-10-632-00-005000						
36	1.8	0.6	0.7	11	151-10-636-00-003000	151-10-636-00-004000	151-10-636-00-005000						
40	2.0	0.6	0.7	10	151-10-640-00-003000	151-10-640-00-004000	151-10-640-00-005000						
42	2.1	0.6	0.7	9	151-10-642-00-003000	151-10-642-00-004000	151-10-642-00-005000						
48	2.4	0.6	0.7	8	151-10-648-00-003000	151-10-648-00-004000	151-10-648-00-005000						
50	2.5	0.6	0.7	8	151-10-650-00-003000	151-10-650-00-004000	151-10-650-00-005000						
52	2.6	0.6	0.7	7	151-10-652-00-003000	151-10-652-00-004000	151-10-652-00-005000						
50	2.5	0.9	1.0	8	151-10-950-00-003000	151-10-950-00-004000	151-10-950-00-005000						
52	2.6	0.9	1.0	7	151-10-952-00-003000	151-10-952-00-004000	151-10-952-00-005000						
64	3.2	0.9	1.0	6	151-10-964-00-003000	151-10-964-00-004000	151-10-964-00-005000						

For RoHS compliance select ◇ plating code.

PLATING CODE = 10◇  
 Pin Plating 10μ" Au

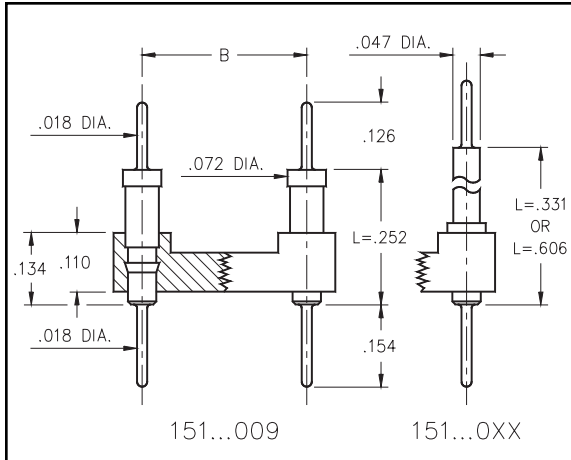
Downloaded from Arrow.com



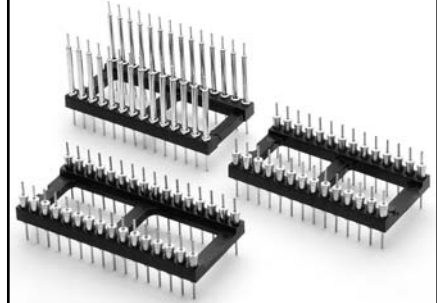
# DUAL-IN-LINE PIN HEADERS

## Interconnect Open Frame

Series 151...009, 010, 011



- Series 151 DIL Headers use .018" dia. solder tails at both ends make this header entirely pluggable.
- Series:  
151...009 use MM #5509 pins  
151...010 use MM #5510 pins  
151...011 use MM #5511 pins  
See pages 179 and 181 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">                     For Electrical, Mechanical &amp; Environmental Data, See pg. 4                 </div>			<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>Ordering Information</b> </div>			<div style="border: 1px solid black; padding: 5px; display: inline-block;">                     RoHS 2002/95/EC                 </div>		
	A	B	C		L = .252	L = .331	L = .606						
10	0.5	0.2	0.3	41	151-10-210-00-009000	151-10-210-00-010000	151-10-210-00-011000						
4	0.2	0.3	0.4	102	151-10-304-00-009000	151-10-304-00-010000	151-10-304-00-011000						
6	0.3	0.3	0.4	67	151-10-306-00-009000	151-10-306-00-010000	151-10-306-00-011000						
8	0.4	0.3	0.4	50	151-10-308-00-009000	151-10-308-00-010000	151-10-308-00-011000						
10	0.5	0.3	0.4	40	151-10-310-00-009000	151-10-310-00-010000	151-10-310-00-011000						
14	0.7	0.3	0.4	28	151-10-314-00-009000	151-10-314-00-010000	151-10-314-00-011000						
16	0.8	0.3	0.4	25	151-10-316-00-009000	151-10-316-00-010000	151-10-316-00-011000						
18	0.9	0.3	0.4	22	151-10-318-00-009000	151-10-318-00-010000	151-10-318-00-011000						
20	1.0	0.3	0.4	20	151-10-320-00-009000	151-10-320-00-010000	151-10-320-00-011000						
22	1.1	0.3	0.4	18	151-10-322-00-009000	151-10-322-00-010000	151-10-322-00-011000						
24	1.2	0.3	0.4	16	151-10-324-00-009000	151-10-324-00-010000	151-10-324-00-011000						
28	1.4	0.3	0.4	14	151-10-328-00-009000	151-10-328-00-010000	151-10-328-00-011000						
20	1.0	0.4	0.5	20	151-10-420-00-009000	151-10-420-00-010000	151-10-420-00-011000						
22	1.1	0.4	0.5	18	151-10-422-00-009000	151-10-422-00-010000	151-10-422-00-011000						
24	1.2	0.4	0.5	16	151-10-424-00-009000	151-10-424-00-010000	151-10-424-00-011000						
28	1.4	0.4	0.5	14	151-10-428-00-009000	151-10-428-00-010000	151-10-428-00-011000						
32	1.6	0.4	0.5	12	151-10-432-00-009000	151-10-432-00-010000	151-10-432-00-011000						
24	1.2	0.6	0.7	16	151-10-624-00-009000	151-10-624-00-010000	151-10-624-00-011000						
28	1.4	0.6	0.7	14	151-10-628-00-009000	151-10-628-00-010000	151-10-628-00-011000						
32	1.6	0.6	0.7	12	151-10-632-00-009000	151-10-632-00-010000	151-10-632-00-011000						
36	1.8	0.6	0.7	11	151-10-636-00-009000	151-10-636-00-010000	151-10-636-00-011000						
40	2.0	0.6	0.7	10	151-10-640-00-009000	151-10-640-00-010000	151-10-640-00-011000						
42	2.1	0.6	0.7	9	151-10-642-00-009000	151-10-642-00-010000	151-10-642-00-011000						
48	2.4	0.6	0.7	8	151-10-648-00-009000	151-10-648-00-010000	151-10-648-00-011000						
50	2.5	0.6	0.7	8	151-10-650-00-009000	151-10-650-00-010000	151-10-650-00-011000						
52	2.6	0.6	0.7	7	151-10-652-00-009000	151-10-652-00-010000	151-10-652-00-011000						
50	2.5	0.9	1.0	8	151-10-950-00-009000	151-10-950-00-010000	151-10-950-00-011000						
52	2.6	0.9	1.0	7	151-10-952-00-009000	151-10-952-00-010000	151-10-952-00-011000						
64	3.2	0.9	1.0	6	151-10-964-00-009000	151-10-964-00-010000	151-10-964-00-011000						

For RoHS compliance select ◇ plating code.

PLATING CODE =

10◇

Pin Plating



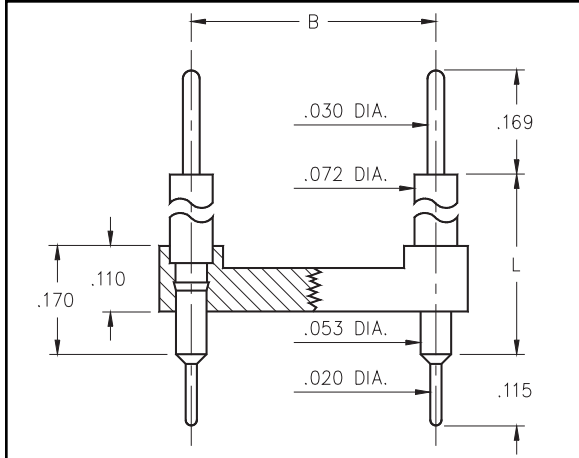
10μ" Au



# DUAL-IN-LINE PIN HEADERS

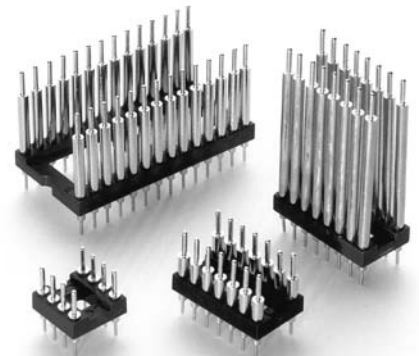
## Interconnect Open Frame

Series 134



- Series 134 DIL Headers combine .030" diameter pins with pluggable .020" diameter solder tails.
- Series:
  - 134...020 use MM #3402 pins
  - 134...010 use MM #3401 pins
  - 134...050 use MM #3405 pins
  - 134...000 use MM #3400 pins
  - 134...100 use MM #3410 pins

- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> <i>For Electrical, Mechanical &amp; Environmental Data, See pg. 4</i> </div> <div style="margin-left: 20px; font-weight: bold; font-size: 1.2em;">Ordering Information</div> <div style="float: right; border: 1px solid black; padding: 5px; transform: rotate(45deg); transform-origin: center;"> <b>RoHS</b> 2002/95/EC         </div>				
	A	B	C		L = .190	L = .236	L = .315	L = .605	L = 1.070
	10	0.5	0.2		0.3	41	134-10-210-00-020000	134-10-210-00-010000	134-10-210-00-050000
4	0.2	0.3	0.4	102	134-10-304-00-020000	134-10-304-00-010000	134-10-304-00-050000	134-10-304-00-000000	134-10-304-00-100000
6	0.3	0.3	0.4	67	134-10-306-00-020000	134-10-306-00-010000	134-10-306-00-050000	134-10-306-00-000000	134-10-306-00-100000
8	0.4	0.3	0.4	50	134-10-308-00-020000	134-10-308-00-010000	134-10-308-00-050000	134-10-308-00-000000	134-10-308-00-100000
10	0.5	0.3	0.4	40	134-10-310-00-020000	134-10-310-00-010000	134-10-310-00-050000	134-10-310-00-000000	134-10-310-00-100000
14	0.7	0.3	0.4	28	134-10-314-00-020000	134-10-314-00-010000	134-10-314-00-050000	134-10-314-00-000000	134-10-314-00-100000
16	0.8	0.3	0.4	25	134-10-316-00-020000	134-10-316-00-010000	134-10-316-00-050000	134-10-316-00-000000	134-10-316-00-100000
18	0.9	0.3	0.4	22	134-10-318-00-020000	134-10-318-00-010000	134-10-318-00-050000	134-10-318-00-000000	134-10-318-00-100000
20	1.0	0.3	0.4	20	134-10-320-00-020000	134-10-320-00-010000	134-10-320-00-050000	134-10-320-00-000000	134-10-320-00-100000
22	1.1	0.3	0.4	18	134-10-322-00-020000	134-10-322-00-010000	134-10-322-00-050000	134-10-322-00-000000	134-10-322-00-100000
24	1.2	0.3	0.4	16	134-10-324-00-020000	134-10-324-00-010000	134-10-324-00-050000	134-10-324-00-000000	134-10-324-00-100000
28	1.4	0.3	0.4	14	134-10-328-00-020000	134-10-328-00-010000	134-10-328-00-050000	134-10-328-00-000000	134-10-328-00-100000
20	1.0	0.4	0.5	20	134-10-420-00-020000	134-10-420-00-010000	134-10-420-00-050000	134-10-420-00-000000	134-10-420-00-100000
22	1.1	0.4	0.5	18	134-10-422-00-020000	134-10-422-00-010000	134-10-422-00-050000	134-10-422-00-000000	134-10-422-00-100000
24	1.2	0.4	0.5	16	134-10-424-00-020000	134-10-424-00-010000	134-10-424-00-050000	134-10-424-00-000000	134-10-424-00-100000
28	1.4	0.4	0.5	14	134-10-428-00-020000	134-10-428-00-010000	134-10-428-00-050000	134-10-428-00-000000	134-10-428-00-100000
32	1.6	0.4	0.5	12	134-10-432-00-020000	134-10-432-00-010000	134-10-432-00-050000	134-10-432-00-000000	134-10-432-00-100000
24	1.2	0.6	0.7	16	134-10-624-00-020000	134-10-624-00-010000	134-10-624-00-050000	134-10-624-00-000000	134-10-624-00-100000
28	1.4	0.6	0.7	14	134-10-628-00-020000	134-10-628-00-010000	134-10-628-00-050000	134-10-628-00-000000	134-10-628-00-100000
32	1.6	0.6	0.7	12	134-10-632-00-020000	134-10-632-00-010000	134-10-632-00-050000	134-10-632-00-000000	134-10-632-00-100000
36	1.8	0.6	0.7	11	134-10-636-00-020000	134-10-636-00-010000	134-10-636-00-050000	134-10-636-00-000000	134-10-636-00-100000
40	2.0	0.6	0.7	10	134-10-640-00-020000	134-10-640-00-010000	134-10-640-00-050000	134-10-640-00-000000	134-10-640-00-100000
42	2.1	0.6	0.7	9	134-10-642-00-020000	134-10-642-00-010000	134-10-642-00-050000	134-10-642-00-000000	134-10-642-00-100000
48	2.4	0.6	0.7	8	134-10-648-00-020000	134-10-648-00-010000	134-10-648-00-050000	134-10-648-00-000000	134-10-648-00-100000
50	2.5	0.6	0.7	8	134-10-650-00-020000	134-10-650-00-010000	134-10-650-00-050000	134-10-650-00-000000	134-10-650-00-100000
52	2.6	0.6	0.7	7	134-10-652-00-020000	134-10-652-00-010000	134-10-652-00-050000	134-10-652-00-000000	134-10-652-00-100000
50	2.5	0.9	1.0	8	134-10-950-00-020000	134-10-950-00-010000	134-10-950-00-050000	134-10-950-00-000000	134-10-950-00-100000
52	2.6	0.9	1.0	7	134-10-952-00-020000	134-10-952-00-010000	134-10-952-00-050000	134-10-952-00-000000	134-10-952-00-100000
64	3.2	0.9	1.0	6	134-10-964-00-020000	134-10-964-00-010000	134-10-964-00-050000	134-10-964-00-000000	134-10-964-00-100000

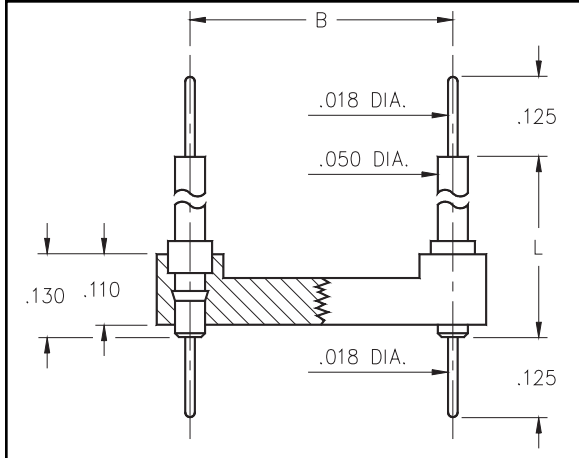
For RoHS compliance select plating code.

PLATING CODE =

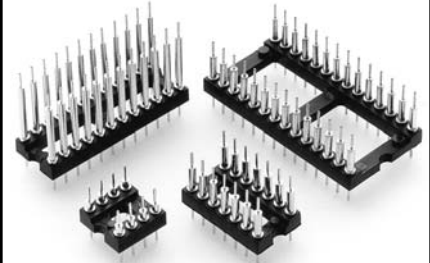
10

Pin Plating

10μ" Au



- Series 142 DIL Headers have double ended .018" diameter pluggable solder tails.
- Used to interconnect PC Boards with spacings of .210", .335", .585" or .835" Series 142 use MM #4259-1, -2, -3 or -4 pins. See page 179 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information			
	A	B	C		L=.210	L=.335	L=.585	L=.835
	6	0.3	0.3		0.4	67	142-XX-306-00-591000	142-XX-306-00-592000
8	0.4	0.3	0.4	50	142-XX-308-00-591000	142-XX-308-00-592000	142-XX-308-00-593000	142-XX-308-00-594000
14	0.7	0.3	0.4	29	142-XX-314-00-591000	142-XX-314-00-592000	142-XX-314-00-593000	142-XX-314-00-594000
16	0.8	0.3	0.4	25	142-XX-316-00-591000	142-XX-316-00-592000	142-XX-316-00-593000	142-XX-316-00-594000
18	0.9	0.3	0.4	22	142-XX-318-00-591000	142-XX-318-00-592000	142-XX-318-00-593000	142-XX-318-00-594000
20	1.0	0.3	0.4	40	142-XX-320-00-591000	142-XX-320-00-592000	142-XX-320-00-593000	142-XX-320-00-594000
24	1.2	0.3	0.4	17	142-XX-324-00-591000	142-XX-324-00-592000	142-XX-324-00-593000	142-XX-324-00-594000
22	1.1	0.4	0.5	14	142-XX-422-00-591000	142-XX-422-00-592000	142-XX-422-00-593000	142-XX-422-00-594000
24	1.2	0.6	0.7	16	142-XX-624-00-591000	142-XX-624-00-592000	142-XX-624-00-593000	142-XX-624-00-594000
28	1.4	0.6	0.7	14	142-XX-628-00-591000	142-XX-628-00-592000	142-XX-628-00-593000	142-XX-628-00-594000
32	1.6	0.6	0.7	12	142-XX-632-00-591000	142-XX-632-00-592000	142-XX-632-00-593000	142-XX-632-00-594000
40	2.0	0.6	0.7	10	142-XX-640-00-591000	142-XX-640-00-592000	142-XX-640-00-593000	142-XX-640-00-594000

For Electrical, Mechanical & Environmental Data, See pg. 4

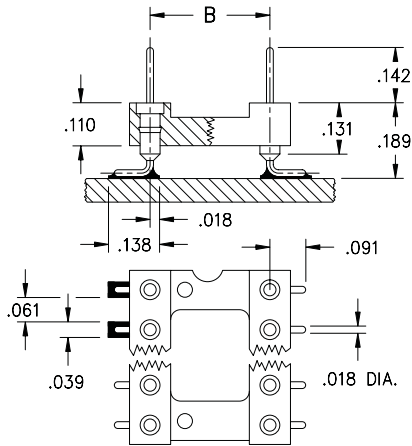
XX=Plating Code See Below

For RoHS compliance select  $\diamond$  plating code.

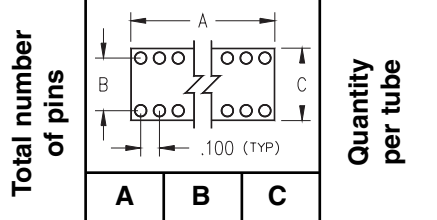
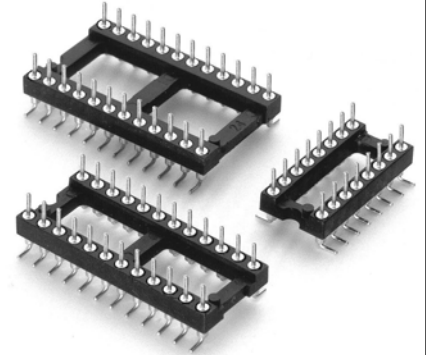


SPECIFY PLATING CODE XX=	10 $\diamond$	90	40 $\diamond$	
Pin Plating	10 $\mu$ " Au	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn	





- Surface mount Gull Wing DIP sockets for devices featuring .100" lead spacing.
- Gull wing terminals for max. strength and easy in-circuit test.
- Series 150 use MM #3404 pins. See page 179 for details.
- Insulators are high temperature thermoplastic.



### Ordering Information

Total number of pins	Pin Spacing			Quantity per tube	Ordering Code
	A	B	C		
10	0.5	0.2	0.3	40	150-10-210-00-106000
4	0.2	0.3	0.4	102	150-10-304-00-106000
6	0.3	0.3	0.4	67	150-10-306-00-106000
8	0.4	0.3	0.4	50	150-10-308-00-106000
10	0.5	0.3	0.4	40	150-10-310-00-106000
14	0.7	0.3	0.4	29	150-10-314-00-106000
16	0.8	0.3	0.4	25	150-10-316-00-106000
18	0.9	0.3	0.4	22	150-10-318-00-106000
20	1.0	0.3	0.4	20	150-10-320-00-106000
22	1.1	0.3	0.4	18	150-10-322-00-106000
24	1.2	0.3	0.4	16	150-10-324-00-106000
28	1.4	0.3	0.4	14	150-10-328-00-106000
20	1.0	0.4	0.5	20	150-10-420-00-106000
22	1.1	0.4	0.5	18	150-10-422-00-106000
24	1.2	0.4	0.5	16	150-10-424-00-106000
28	1.4	0.4	0.5	14	150-10-428-00-106000
32	1.6	0.4	0.5	12	150-10-432-00-106000
24	1.2	0.6	0.7	16	150-10-624-00-106000
28	1.4	0.6	0.7	14	150-10-628-00-106000
32	1.6	0.6	0.7	12	150-10-632-00-106000
36	1.8	0.6	0.7	11	150-10-636-00-106000
40	2.0	0.6	0.7	10	150-10-640-00-106000
42	2.1	0.6	0.7	9	150-10-642-00-106000
48	2.4	0.6	0.7	8	150-10-648-00-106000
50	2.5	0.6	0.7	8	150-10-650-00-106000
52	2.6	0.6	0.7	7	150-10-652-00-106000
50	2.5	0.9	1.0	8	150-10-950-00-106000
52	2.6	0.9	1.0	7	150-10-952-00-106000
64	3.2	0.9	1.0	6	150-10-964-00-106000

*For Electrical, Mechanical & Environmental Data, See pg. 4*



For RoHS compliance select  $\diamond$  plating code.

Coplanarity .005". For Pin Counts >20 positions consult Technical Support.	PLATING CODE =	10 $\diamond$		
	Pin Plating	10 $\mu$ " Au		

Downloaded from [Arrow.com](http://Arrow.com)



## DUAL-IN-LINE SOCKETS Shrink DIP Sockets and Strips Solder Tail and Wrapost

Series 117, 127, 217  
227, 317, 327

- High density DIP sockets and strips for devices featuring .070" lead spacing.
- Solder tails use MM #1802 receptacles, See page 140 for details. Wraposts use MM # 1702-2 or 1703-3 receptacles, See page 166 for details.
- Receptacles use Hi-Rel, 4-finger #30 contact and 6-finger #43 contact, both rated at 3 amps. See pages 218 & 220.
- Insulators are high temp. thermoplastic.

Total number of pins				Quantity per tube	<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">For Electrical, Mechanical &amp; Environmental Data, See pg. 4</span> <span style="font-size: 1.2em; font-weight: bold;">Ordering Information</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px; margin-left: 10px;">XX=Plating Code See Below</span>			
	A	B	C		Solder Tail	2 Level Wrapost L = .370	3 Level Wrapost L = .510	
<b>OPEN FRAME DIP SOCKET</b>								
16	0.572	0.3	0.39	35	117-XX-316-41-005000	127-XX-316-41-002000	127-XX-316-41-003000	
28	0.992	0.4	0.49	20	117-XX-428-41-005000	127-XX-428-41-002000	127-XX-428-41-003000	
30	1.062	0.4	0.49	18	117-XX-430-41-005000	127-XX-430-41-002000	127-XX-430-41-003000	
48	1.692	0.4	0.49	12	117-XX-448-41-005000	127-XX-448-41-002000	127-XX-448-41-003000	
20	0.712	0.6	0.69	28	117-XX-620-41-005000	127-XX-620-41-002000	127-XX-620-41-003000	
28	0.992	0.6	0.69	20	117-XX-628-41-005000	127-XX-628-41-002000	127-XX-628-41-003000	
40	1.412	0.6	0.69	14	117-XX-640-41-005000	127-XX-640-41-002000	127-XX-640-41-003000	
42	1.482	0.6	0.69	13	117-XX-642-41-005000	127-XX-642-41-002000	127-XX-642-41-003000	
48	1.692	0.6	0.69	11	117-XX-648-41-005000	127-XX-648-41-002000	127-XX-648-41-003000	
52	1.832	0.6	0.69	11	117-XX-652-41-005000	127-XX-652-41-002000	127-XX-652-41-003000	
56	1.972	0.6	0.69	10	117-XX-656-41-005000	127-XX-656-41-002000	127-XX-656-41-003000	
64	2.252	0.6	0.69	8	117-XX-664-41-005000	127-XX-664-41-002000	127-XX-664-41-003000	
68	2.392	0.6	0.69	8	117-XX-668-41-005000	127-XX-668-41-002000	127-XX-668-41-003000	
64	2.252	0.75	0.84	8	117-XX-764-41-005000	127-XX-764-41-002000	127-XX-764-41-003000	
<b>CLOSED FRAME DIP SOCKET</b>								
64	2.252	0.75	0.84	8	217-XX-764-41-005000	227-XX-764-41-002000	227-XX-764-41-003000	
<b>SINGLE ROW STRIP SOCKET</b>								
					If desired, we will supply any length up to 21 pins.			
21	1.482	---	.104	-	317-93-121-41-005000	327-XX-121-41-002000	327-XX-121-41-003000	
<span style="border: 1px solid green; padding: 2px;">For RoHS compliance select <span style="color: green;">◇</span> plating code.</span>					SPECIFY PLATING CODE XX=		93	43 <span style="color: green;">◇</span>
					Sleeve (Pin)		200µ" Sn/Pb	200µ" Sn
					Contact (Clip)		30µ" Au	30µ" Au

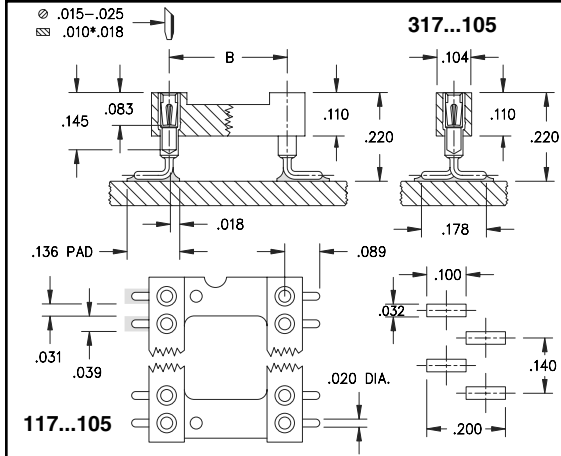


# DUAL-IN-LINE SOCKETS

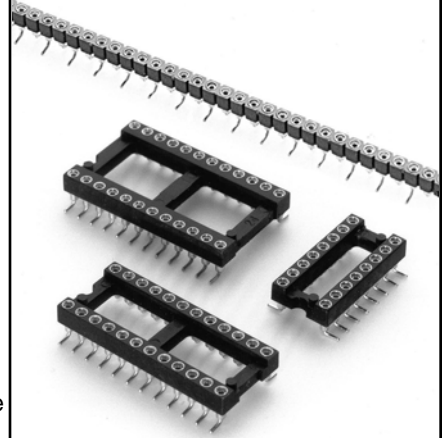
## Gull Wing Shrink DIP Sockets & Strips

### Surface Mount Solder Tail

Series 117, 317



- Surface mount Gull Wing DIP sockets for devices featuring .070" lead spacing.
- Gull wing terminals for max. strength and easy in-circuit test.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 117 and 317 use MM #1802 pins. See page 140 for details.
- Insulators are high temperature thermoplastic.



Total number of pins	Pin Configuration			Quantity per tube	Ordering Information	
	A	B	C			
16	0.572	0.3	0.39	35	117-XX-316-41-105000	<p>For RoHS compliance select  plating code.</p>
28	0.992	0.4	0.49	20	117-XX-428-41-105000	
30	1.062	0.4	0.49	18	117-XX-430-41-105000	
48	1.692	0.4	0.49	12	117-XX-448-41-105000	
20	0.712	0.6	0.69	28	117-XX-620-41-105000	
28	0.992	0.6	0.69	20	117-XX-628-41-105000	
40	1.412	0.6	0.69	14	117-XX-640-41-105000	
42	1.482	0.6	0.69	13	117-XX-642-41-105000	
48	1.692	0.6	0.69	12	117-XX-648-41-105000	
52	1.832	0.6	0.69	11	117-XX-652-41-105000	
56	1.972	0.6	0.69	10	117-XX-656-41-105000	
64	2.252	0.6	0.69	9	117-XX-664-41-105000	
68	2.392	0.6	0.69	8	117-XX-668-41-105000	
64	2.252	0.75	0.84	8	117-XX-764-41-105000	

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

					<b>SINGLE ROW STRIP HEADER</b> If desired, we will supply any length up to 21 pins.	
--	--	--	--	--	--	--

21	1.482	---	.104	-	317-XX-121-41-105000	
----	-------	-----	------	---	----------------------	--

Coplanarity .005". For Pin Counts >10 positions consult Technical Support.	SPECIFY PLATING CODE XX=	13	93	43
	Sleeve (Pin)	10µ" Au	200µ" Sn/Pb	200µ" Sn
	Contact (Clip)	30µ" Au	30µ" Au	30µ" Au

Downloaded from Arrow.com



## DUAL-IN-LINE HEADERS Shrink DIP Headers and Strips Solder Tail

Series 162, 862

- High density DIP headers and strips for devices featuring .070" lead spacing.
- Series 162 DIP headers use MM #6218 pins. See page 175 for details.
- Series 862 strip headers use MM #6218 pins. See page 175 for details.
- Insulators are high temperature thermoplastic.

Total number of pins				Quantity per tube	Ordering Information	
	A	B	C			

16	0.572	0.3	0.39	35		162-XX-316-00-180000
28	0.992	0.4	0.49	20		162-XX-428-00-180000
30	1.062	0.4	0.49	18		162-XX-430-00-180000
48	1.692	0.4	0.49	12		162-XX-448-00-180000
20	0.712	0.6	0.69	28		162-XX-620-00-180000
28	0.992	0.6	0.69	20		162-XX-628-00-180000
40	1.412	0.6	0.69	14		162-XX-640-00-180000
42	1.482	0.6	0.69	13		162-XX-642-00-180000
48	1.692	0.6	0.69	12		162-XX-648-00-180000
52	1.832	0.6	0.69	11		162-XX-652-00-180000
56	1.972	0.6	0.69	10		162-XX-656-00-180000
64	2.252	0.6	0.69	9		162-XX-664-00-180000
68	2.392	0.6	0.69	8		162-XX-668-00-180000
64	2.252	0.75	0.84	8		162-XX-764-00-180000



For RoHS compliance select ◇ plating code.

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

					<b>SINGLE ROW STRIP HEADER</b> If desired, we will supply any length up to 21 pins.					
21	1.482	- - -	.104	-	862-XX-121-00-180000					
					SPECIFY PLATING CODE XX=	10◇	90	40◇		
					Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn		

Downloaded from [Arrow.com](http://Arrow.com)

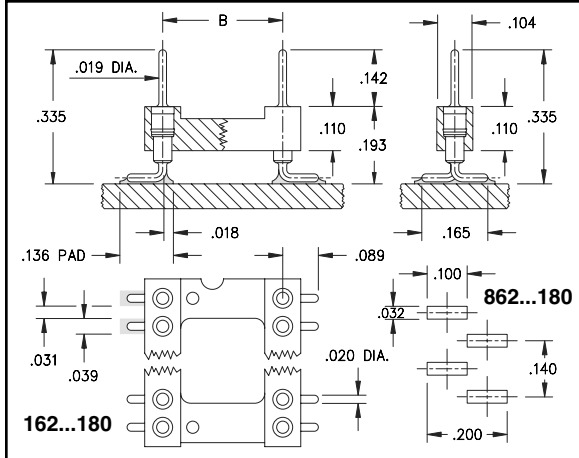


# DUAL-IN-LINE HEADERS

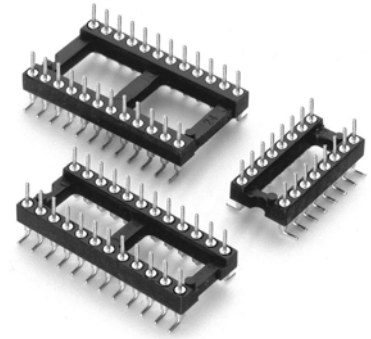
## Gull Wing Shrink DIP Headers and Strips

### Surface Mount Solder Tail

Series 162, 862



- Surface mount Gull Wing DIP sockets and strips for devices featuring .070" lead spacing.
- Gull wing terminals for max. strength and easy in-circuit test.
- Series 162 and Series 862 use MM #6218 pins. See page 175 for details.
- Insulators are high temperature thermoplastic.



<b>Total number of pins</b>				<b>Quantity per tube</b>	<h2>Ordering Information</h2>
	<b>A</b>	<b>B</b>	<b>C</b>		

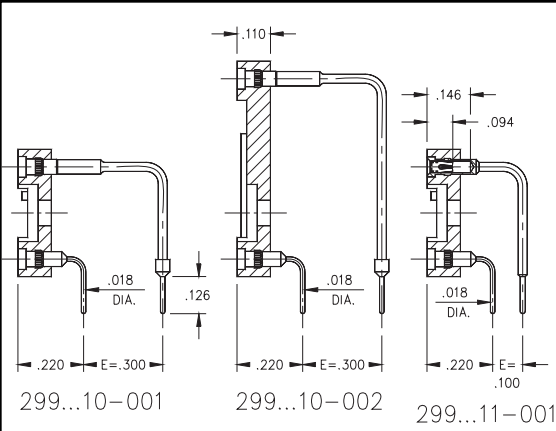
16	0.572	0.3	0.39	35	162-XX-316-30-180000	<p style="font-size: small; color: blue;">For RoHS compliance select <span style="color: green;">◇</span> plating code.</p>
28	0.992	0.4	0.49	20	162-XX-428-30-180000	
30	1.062	0.4	0.49	18	162-XX-430-30-180000	
48	1.692	0.4	0.49	12	162-XX-448-30-180000	
20	0.712	0.6	0.69	28	162-XX-620-30-180000	
28	0.992	0.6	0.69	20	162-XX-628-30-180000	
40	1.412	0.6	0.69	14	162-XX-640-30-180000	
42	1.482	0.6	0.69	13	162-XX-642-30-180000	
48	1.692	0.6	0.69	12	162-XX-648-30-180000	
52	1.832	0.6	0.69	11	162-XX-652-30-180000	
56	1.972	0.6	0.69	10	162-XX-656-30-180000	
64	2.252	0.6	0.69	9	162-XX-664-30-180000	
68	2.392	0.6	0.69	8	162-XX-668-30-180000	
64	2.252	0.75	0.84	8	162-XX-764-30-180000	

	<h3>SINGLE ROW STRIP SMT HEADER</h3> <p>If desired, we will supply any length up to 21 pins.</p>			
--	--	--	--	--

21	1.482	- - -	.104	-	862-XX-121-30-180000
----	-------	-------	------	---	----------------------

Coplanarity .005". For Pin Counts >10 positions consult Technical Support.	SPECIFY PLATING CODE XX=	10◇	90	40◇	
	Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

Downloaded from [Arrow.com](http://Arrow.com)



- For components to be mounted perpendicularly to the PCB, such as LED displays.
- Horizontal mount solder tails are available with either .300" (standard) or .100" row spacing.
- Series 299 use MM #1103/0903, #1103/1610 or #1103/0904 pins. See pages 137 & 138 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information	
	A	B	C		E=.300	E=.100
6	0.3	0.3	0.4		299-XX-306-10-001000	299-XX-306-11-001000
8	0.4	0.3	0.4		299-XX-308-10-001000	299-XX-308-11-001000
10	0.5	0.3	0.4		299-XX-310-10-001000	299-XX-310-11-001000
12	0.6	0.3	0.4	33	299-XX-312-10-001000	299-XX-312-11-001000
14	0.7	0.3	0.4	29	299-XX-314-10-001000	299-XX-314-11-001000
16	0.8	0.3	0.4	25	299-XX-316-10-001000	299-XX-316-11-001000
18	0.9	0.3	0.4	22	299-XX-318-10-001000	299-XX-318-11-001000
20	1.0	0.3	0.4	20	299-XX-320-10-001000	299-XX-320-11-001000
24	1.2	0.3	0.4	16	299-XX-324-10-001000	299-XX-324-11-001000
8	0.4	0.6	0.7	50	299-XX-608-10-002000	
10	0.5	0.6	0.7	40	299-XX-610-10-002000	
12	0.6	0.6	0.7	34	299-XX-612-10-002000	
14	0.7	0.6	0.7	28	299-XX-614-10-002000	
16	0.8	0.6	0.7	25	299-XX-616-10-002000	
18	0.9	0.6	0.7	22	299-XX-618-10-002000	
20	1.0	0.6	0.7	20	299-XX-620-10-002000	
22	1.1	0.6	0.7	18	299-XX-622-10-002000	
24	1.2	0.6	0.7	16	299-XX-624-10-002000	
26	1.3	0.6	0.7	15	299-XX-626-10-002000	
28	1.4	0.6	0.7	14	299-XX-628-10-002000	
30	1.5	0.6	0.7	13	299-XX-630-10-002000	
32	1.6	0.6	0.7	12	299-XX-632-10-002000	
36	1.8	0.6	0.7	11	299-XX-636-10-002000	
40	2.0	0.6	0.7	10	299-XX-640-10-002000	

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

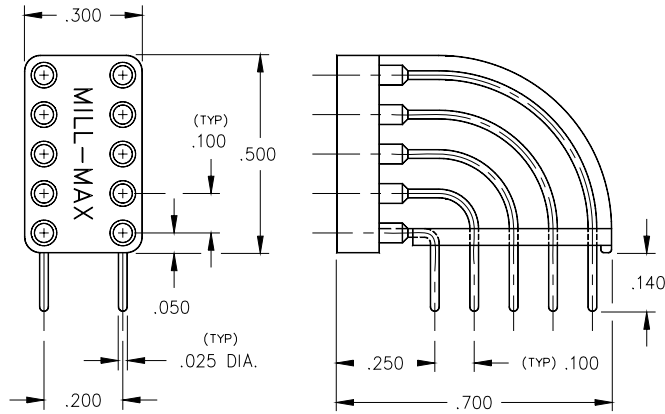
For RoHS compliance select  $\diamond$  plating code.



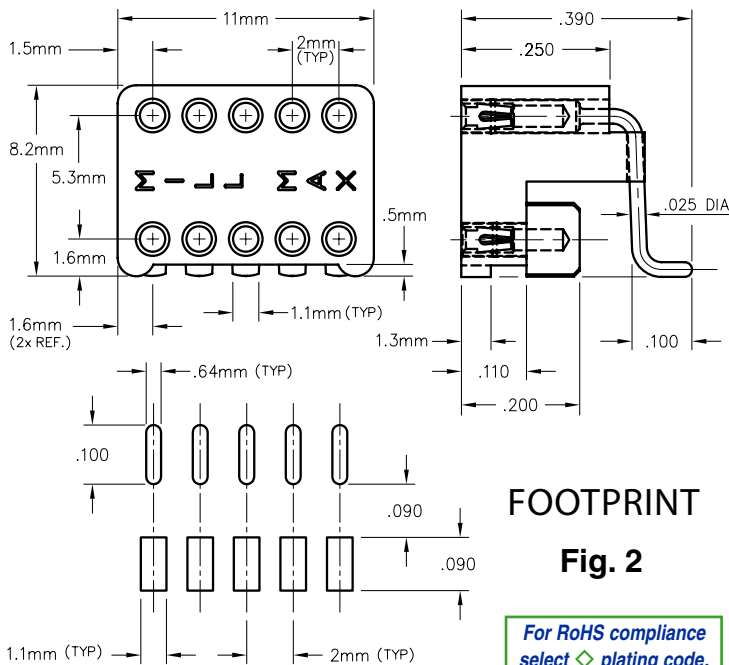
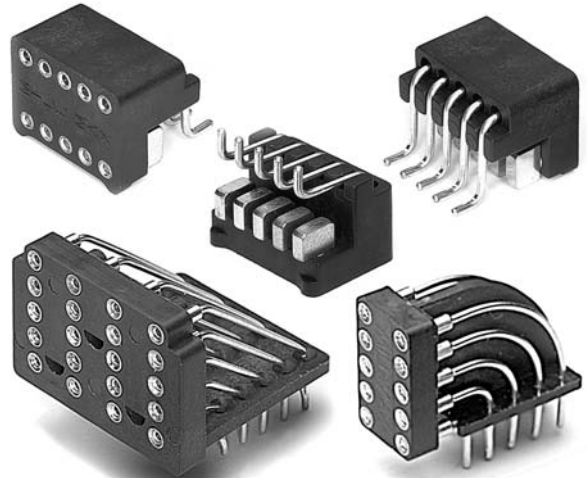
SPECIFY PLATING CODE XX=			93			43 $\diamond$	
Sleeve (Pin)			200 $\mu$ " Sn/Pb			200 $\mu$ " Sn	
Contact (Clip)			30 $\mu$ " Au			30 $\mu$ " Au	

Downloaded from Arrow.com

(See also page 61 for Right Angle DIP Sockets)

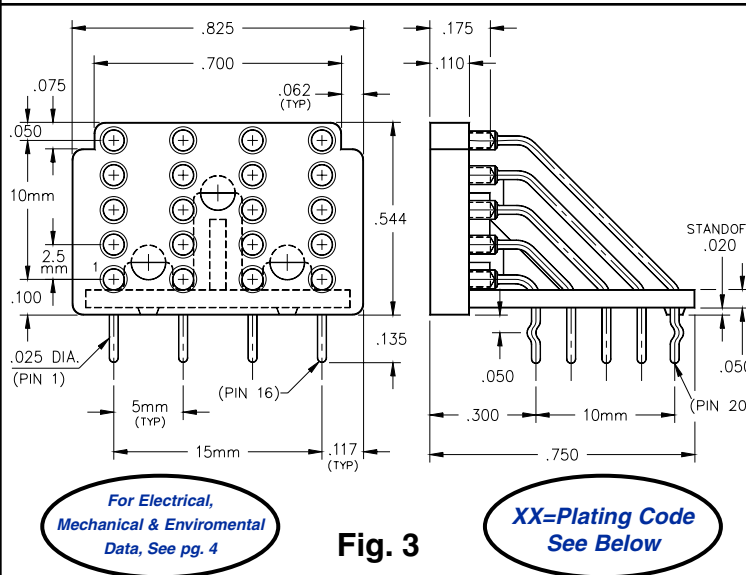


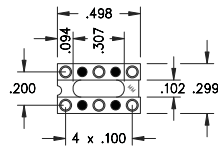
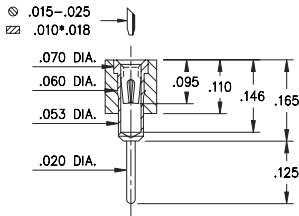
**Fig. 1**



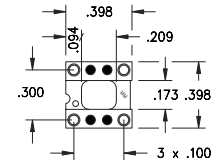
- Series 296, 299 & 594 vertical display sockets are used to mount dot matrix and 7-segment LED displays at the edge of and perpendicular to a printed circuit board. This positions the display directly behind the translucent front panel of the equipment.
- Series 299 & 594 are through hole mount and can be wave or intrusive reflow soldered.
- Series 296 is surface mount and can be supplied on carrier tape for automated “pick ‘n place” assembly.
- Insulators are high temp. Nylon 46, suitable for all soldering processes including “lead-free”.

Fig.	No. of pins	Ordering Information
1	10	<b>299-99-210-12-001800</b>
		Plating Code <span style="float: right;"></span>
2	10	<b>296-XX-010-30-691800</b> (Discrete sockets)
		<b>296-XX-010-30-692800</b> (Supplied on 24mm wide carrier tape per EIA-481: 450 per 13” reel)
3	20	<b>594-XX-020-01-007032</b>
		Plating Code <span style="float: right;"></span>
SPECIFY PLATING CODE XX=		<b>99</b> <b>44</b> <span style="color: green;">◇</span>
Sleeve (Pin)		200µ” Sn/Pb    200µ” Sn
Contact (Clip)		200µ” Sn/Pb    200µ” Sn

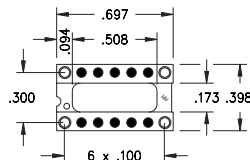




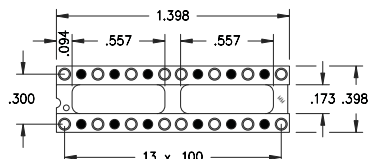
**Fig. 1**



**Fig. 2**



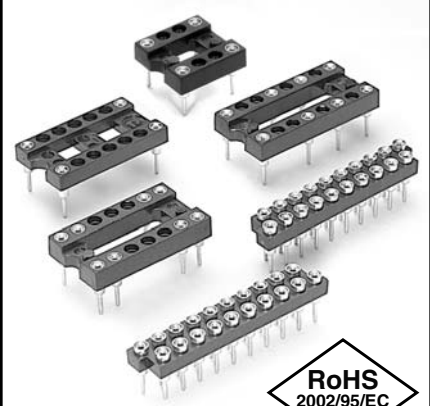
**Fig. 3**



**Fig. 4**

○ = Loaded Position    ● = Empty Position

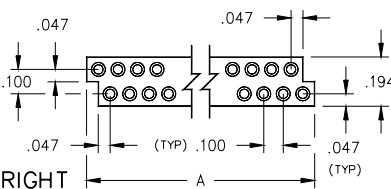
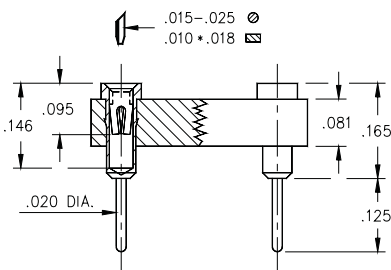
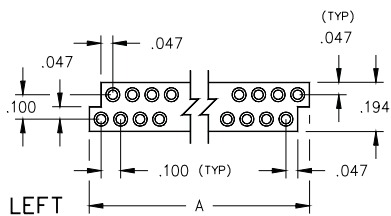
- Relay sockets accept devices with I/O pins on .100" grid.
- Additional Relay DIP socket patterns are available on Page 64.
- Zig-Zag strip sockets are suitable for IC's and memory chips with staggered double row patterns.
- Series 110 and 410 use MM #1001 receptacles. See page 136 for details.
- Receptacles use Hi-Rel, 4 finger #30 BeCu contact rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



### Selectively Loaded Sockets For Dual-In-Line Relays

	No. of pins	Ordering Information
<b>Fig. 1</b>	6	110-XX-210-10-001000
<b>Fig. 2</b>	4	110-XX-308-10-001000
<b>Fig. 3</b>	4	110-XX-314-10-001000
<b>Fig. 4</b>	16	110-XX-328-10-001000

### Staggered (Zig-Zag) Strip Sockets



Dim 'A'	No. of pins	Insulator Body	Ordering Information
0.747	14	Left, Stackable	410-93-214-10-001000
0.747	14	Right, Stackable	410-93-214-10-002000
0.847	16	Left, Stackable	410-93-216-10-001000
0.847	16	Right, Stackable	410-93-216-10-002000
1.047	20	Left, Stackable	410-93-220-10-001000
1.047	20	Right, Stackable	410-93-220-10-002000
1.247	24	Left, Stackable	410-93-224-10-001000
1.247	24	Right, Stackable	410-93-224-10-002000
1.447	28	Left, Stackable	410-93-228-10-001000
1.447	28	Right, Stackable	410-93-228-10-002000

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	13◇	93	43◇
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au	30μ" Au



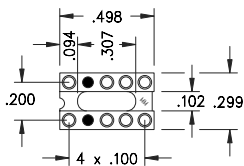
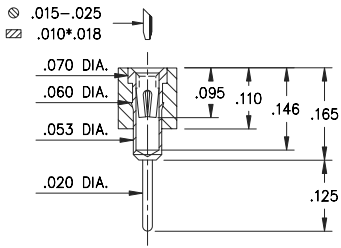


Fig. 1

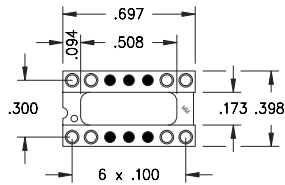


Fig. 2

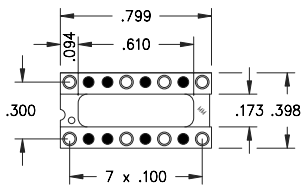


Fig. 3

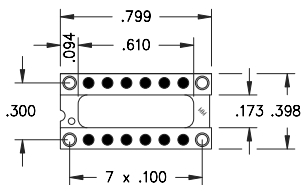


Fig. 4

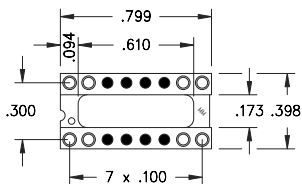


Fig. 5

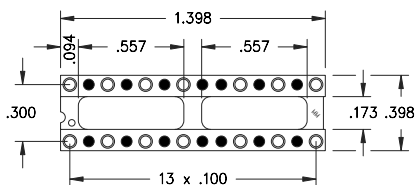
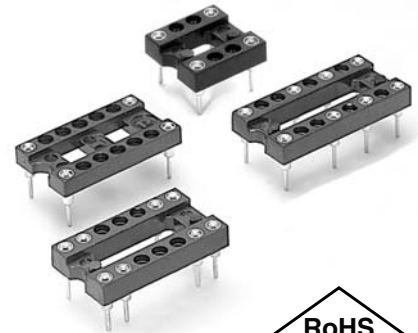


Fig. 6

○ = Loaded Position ● = Empty Position

- Relay sockets accept devices with I/O pins on .100" grid.
- Additional Relay DIP socket patterns are available on Page 63.
- Series 110 use MM #1001 receptacles. See page 136 for details.
- Receptacles use Hi-Rel, 4 finger #30 BeCu contact rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



### Ordering Information

Fig. 1	Series 110...002	8 Position Relay Socket
	110-XX-210-10-002000	
Fig. 2	Series 110...002	8 Position Relay Socket
	110-XX-314-10-002000	
Fig. 3	Series 110...003	8 Position Relay Socket
	110-XX-316-10-003000	
Fig. 4	Series 110...004	4 Position Relay Socket
	110-XX-316-10-004000	
Fig. 5	Series 110...005	8 Position Relay Socket
	110-XX-316-10-005000	
Fig. 6	Series 110...002	14 Position Relay Socket
	110-XX-328-10-002000	

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	13◇	93	43◇
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au	30μ" Au



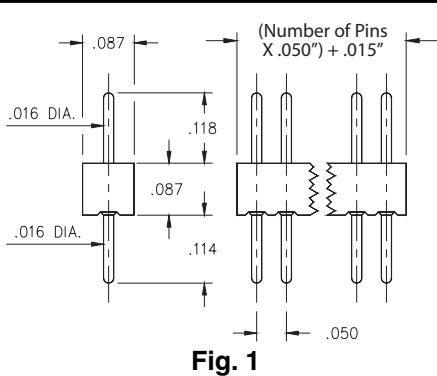
## SIP SOCKETS, HEADERS AND CARRIERS QUICK SELECTOR CHART

**USE THIS CONVENIENT CHART TO SELECT THE RIGHT SIP INTERCONNECT FOR YOUR APPLICATION**

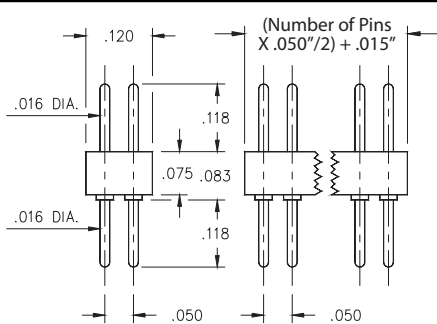
- 1) Determine the style of pin needed to meet your requirement.
- 2) Select the appropriate insulator frame, pitch and grid spacing.
- 3) Turn to indicated page for detail and ordering information.
- 4) For custom assembly in a selected insulator, contact our applications engineers.

### SINGLE & DOUBLE ROW SIP SOCKETS, HEADERS AND CARRIERS

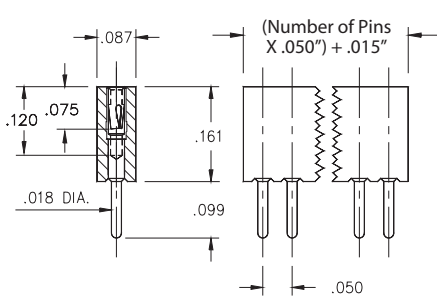
	.015" - .025" Diameter Pins								.025" - .037" & .025" Sq. Diameter Pins								.037-.043" Dia. Pins	Slotted, Turret, Solder Cup		Socket Carriers				
	Vertical Socket	Right Angle Socket	Vertical Pin	Right Angle Pin	Surface Mount Pin	Surface Mount Socket	1-4 Level Wrapost Socket	Pluggable Wrapost Socket	.020/.030 Elevated Solder Tail Pin	Surface Mount Socket & Headers	Solderless Press-fit Socket	Solderless Press-fit Pin	Vertical Socket	Vertical Through Socket	Right Angle Socket	Vertical Pin		Right Angle Pin	Vertical Socket	Solder Tail	Wrapost Tail	Solder Tail	Low Profile	Ultra Low Profile
<b>Select Pin</b> →																								
<b>.050" Grid Single Row</b> →	66	67	66	67	68	68																		
<b>.050" Grid Double Row</b> →	66	67	66	67	68	68																		
<b>2mm Grid Single Row</b> →	70	72	70	72	71	71																		
<b>2mm Grid Double Row</b> →	70	72	70	72	71	71																		
<b>.200" Grid Single Row</b> →												88		88		88								
<b>.100" Grid Single Row</b> →	73		73		69	69																		
	79		79		76	76																		
	89	73	102	73	77	77	93	95	105	77	83	83	80	87	81	80	81	81	86	75	110	99	100	101
	91		103		78	78				85			81							108				
	97		106																					
<b>.100" Grid Double Row</b> →	74		74		76	76																		
	79		79		76	76																		
	90	74	102	74	76	76	94	96		85	84	84	80	87	82	80	82	82	86	75	111	99	100	101
	92		104		78	78							82							109				
	98		107																					



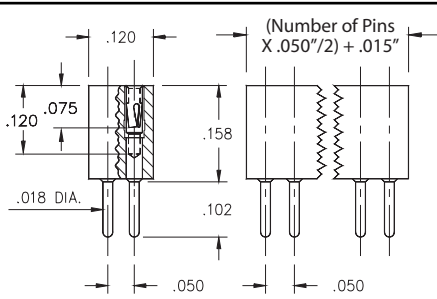
**Fig. 1**



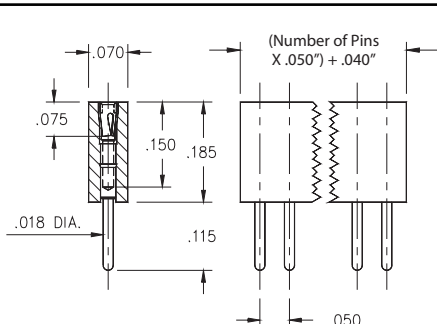
**Fig. 2**



**Fig. 3**

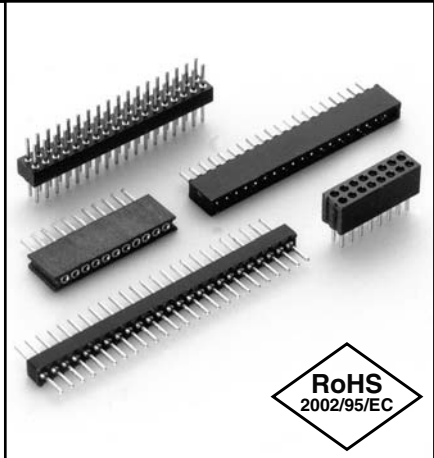


**Fig. 4**



**Fig. 5**

- Series 850 single and double row interconnects have .050" pin spacing & permit board stacking as low as .248".
- Pin headers have .016" dia. pins ( MM #4006-0 ). See page 175 for details.
- MM #0467 and MM #4890 receptacles use Hi-Rel, 3-finger BeCu #11 contacts rated at 3 amps. ( #11 contact accepts pin diameters from .015"-.020" ). See pages 129 and 131 for details.
- Insulators are high temp. thermoplastic, suitable for all soldering operations.



**Ordering Information**

<b>Fig. 1</b>	<b>Single Row</b>	<b>.087" Profile Pin Header</b>
	850-XX-0__-10-001000	
	<b>Specify # of pins</b>	01-50
<b>Fig. 2</b>	<b>Double Row</b>	<b>.075" Profile Pin Header</b>
	852-XX-__-10-001000	
	<b>Specify # of pins</b>	002-100

*For Electrical, Mechanical & Environmental Data, See pg. 4*

*XX=Plating Code See Below*

*For RoHS compliance select  $\diamond$  plating code.*

SPECIFY PLATING CODE XX=	10 $\diamond$	90	40 $\diamond$	
Pin Plating	10 $\mu$ " Au	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn	

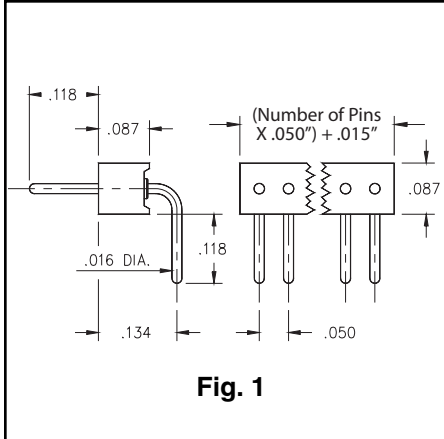
<b>Fig. 3</b>	<b>Single Row</b>	<b>.161" Profile Socket</b>
	851-XX-0__-10-001000	
	<b>Specify # of pins</b>	01-50
<b>Fig. 4</b>	<b>Double Row</b>	<b>.161" Profile Socket</b>
	853-XX-__-10-001000	
	<b>Specify # of pins</b>	002-100
<b>Fig. 5</b>	<b>Single Row</b>	<b>.185" Profile Socket</b>
	851-XX-0__-10-002000	
	<b>Specify # of pins</b>	01-77

*For Electrical, Mechanical & Environmental Data, See pg. 4*

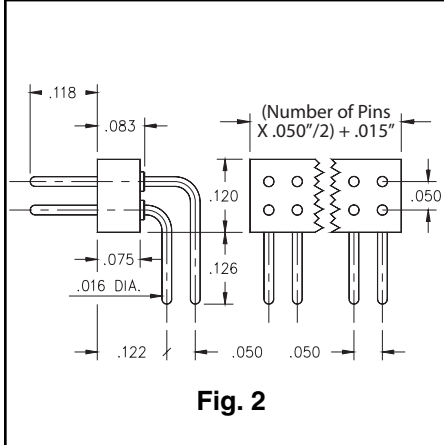
*XX=Plating Code See Below*

*For RoHS compliance select  $\diamond$  plating code.*

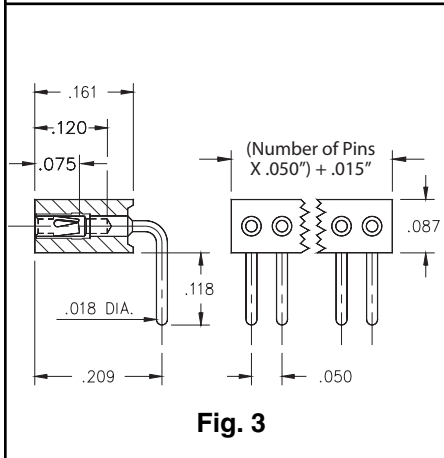
SPECIFY PLATING CODE XX=		93	99		43 $\diamond$
Sleeve (Pin)		200 $\mu$ " Sn/Pb	200 $\mu$ " Sn/Pb		200 $\mu$ " Sn
Contact (Clip)		30 $\mu$ " Au	200 $\mu$ " Sn/Pb		30 $\mu$ " Au



- Series 850 and 851 interconnects are available in single and double row form.
- 850 & 852 series headers use MM #4006-1 and #4006-2 pins. See page 175 details.
- 851 & 853 series sockets use MM #4890-1 and #4890-2 receptacles, that accept pin diameters from .015"-.021" See page 131 for details.
- Insulators are high temp. thermoplastic.



<b>Ordering Information</b>	
<b>Fig. 1</b>	<b>Single Row Right Angle Pin Header</b> 850-XX-0__-20-001000 Specify # of pins      ↪      01-50
	<b>Double Row Right Angle Pin Header</b> 852-XX-__-20-001000 Specify # of pins      ↪      002-100

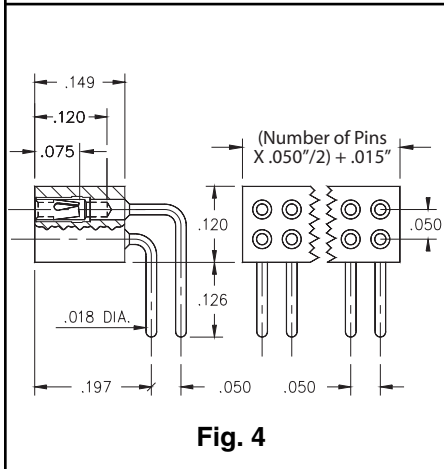


*For Electrical, Mechanical & Environmental Data, See pg. 4*

**XX=Plating Code See Below**

*For RoHS compliance select ◇ plating code.*

SPECIFY PLATING CODE XX=	<b>10</b> ◇	<b>90</b>	<b>40</b> ◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	



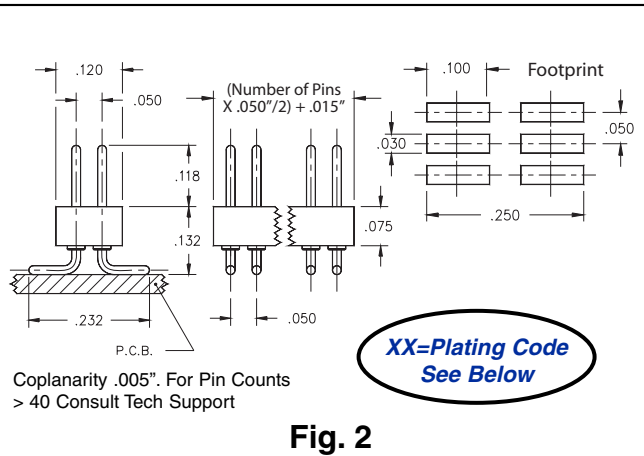
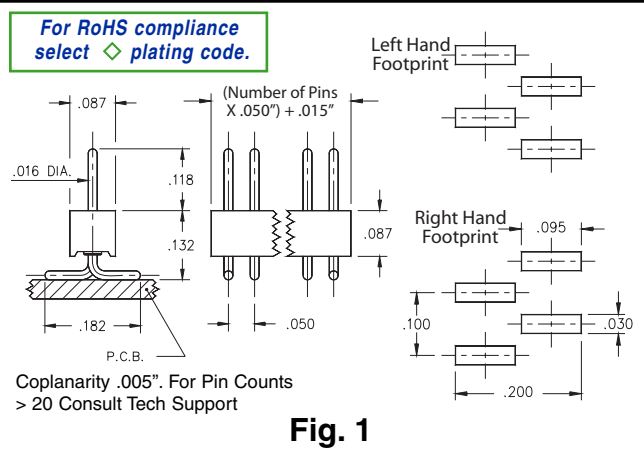
<b>Fig. 3</b>	<b>Single Row Right Angle Socket</b> 851-XX-0__-20-001000 Specify # of pins      ↪      01-50
	<b>Double Row Right Angle Socket</b> 853-XX-__-20-001000 Specify # of pins      ↪      002-100

*For Electrical, Mechanical & Environmental Data, See pg. 4*

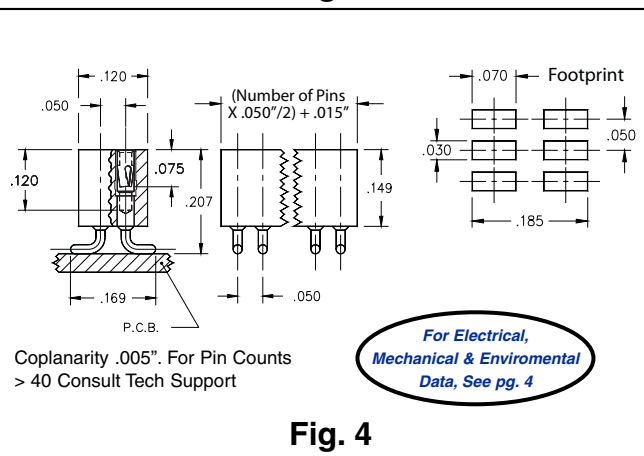
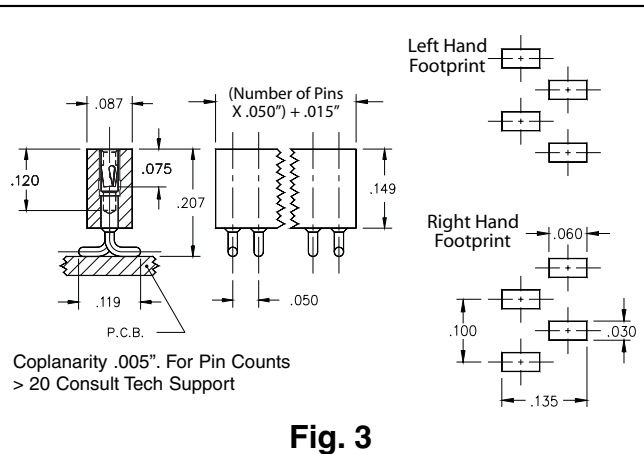
**XX=Plating Code See Below**

*For RoHS compliance select ◇ plating code.*

SPECIFY PLATING CODE XX=		<b>93</b>	<b>99</b>	<b>43</b> ◇
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn
Contact (Clip)		30μ" Au	200μ" Sn/Pb	30μ" Au



**XX=Plating Code**  
**See Below**



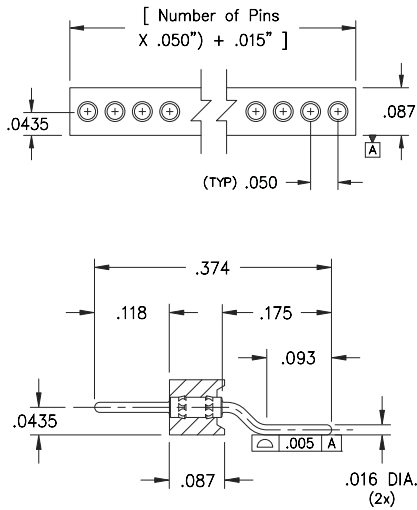
**For Electrical, Mechanical & Environmental Data, See pg. 4**

- Single row interconnects having an even number of pins are now available with a left or right hand footprint.
- Headers (850 & 852) use MM# 4006 pins. See page 175 for details.
- Sockets (851 & 853) use MM# 4890-0 receptacles and accept pin diameters from .015-.021. See page 131 for details.
- Coplanarity .005" (Single Row max 20 pins; Double Row max 40 pins). For higher pin counts contact technical support .
- Insulators are high temp. thermoplastic.



**Ordering Information**

<b>Fig. 1L</b>	<b>Single Row Header, Left Hand Footprint</b> <b>Odd or Even # of pins</b>	850-XX-0__-30-001000
	<b>Specify # of pins</b>	01-50
<b>Fig. 1R</b>	<b>Single Row Header, Right Hand Footprint</b> <b>Even # of pins</b>	850-XX-0__-30-002000
	<b>Specify even # of pins</b>	02-50
<b>Fig. 2</b>	<b>Double Row Header, Even # of pins</b>	852-XX-__-30-001000
	<b>Specify even # of pins</b>	004-100
SPECIFY PLATING CODE XX=		10 $\diamond$ 90      40 $\diamond$
Pin Plating		10 $\mu$ " Au    200 $\mu$ " Sn/Pb    200 $\mu$ " Sn
<b>Fig. 3L</b>	<b>Single Row Socket, Left Hand Footprint</b> <b>Odd or Even # of pins</b>	851-XX-0__-30-001000
	<b>Specify # of pins</b>	01-50
<b>Fig. 3R</b>	<b>Single Row Socket, Right Hand Footprint</b> <b>Even # of pins</b>	851-XX-0__-30-002000
	<b>Specify even # of pins</b>	02-50
<b>Fig. 4</b>	<b>Double Row Socket, Even # of pins</b>	853-XX-__-30-001000
	<b>Specify even # of pins</b>	004-100
SPECIFY PLATING CODE XX=		93      99      43 $\diamond$ 44 $\diamond$
Sleeve (Pin)		200 $\mu$ " Sn/Pb    200 $\mu$ " Sn/Pb    200 $\mu$ " Sn    200 $\mu$ " Sn
Contact (Clip)		30 $\mu$ " Au    200 $\mu$ " Sn/Pb    30 $\mu$ " Au    200 $\mu$ " Sn



Coplanarity .005". For Pin Counts >20 positions consult Technical Support.

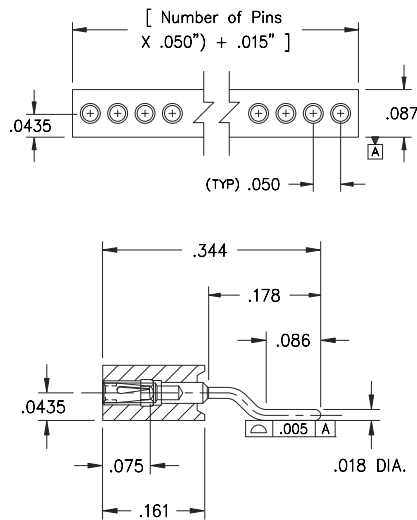
**Fig. 1**

- Series 850 horizontal Surface Mount Z-Bend headers are available with .016" dia. solder tails and pluggable pins (MM #4006-1). See page 175 for details.
- Series 851 horizontal Surface Mount Z-Bend sockets use MM #4890-1 receptacles that accept pin diameters from .015"-.020". See pages 131 for details.
- Insulators are high temp. thermoplastic.



**Ordering Information**

<b>Fig. 1</b>	<b>Single Row Surface Mount Z-Bend Header</b>
	<p>850-10-0__-40-001000</p> <p>Specify # of pins      <math>\rightarrow</math>      02-20</p>



Coplanarity .005". For Pin Counts >20 positions consult Technical Support.

**Fig. 2**

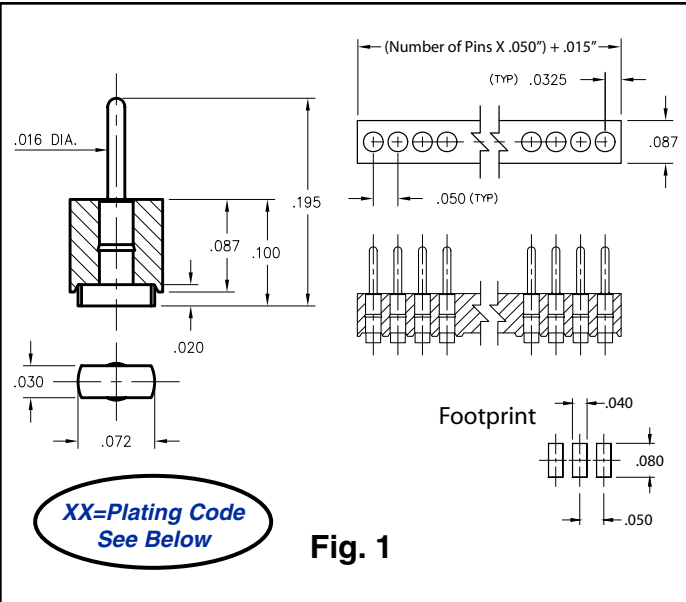
For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select  $\diamond$  plating code.

SPECIFY PLATING CODE XX=	10 $\diamond$			
Pin Plating	10 $\mu$ " Au			

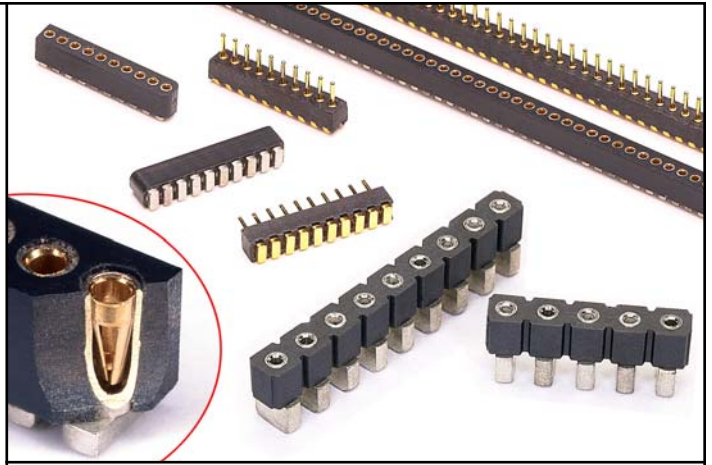
<b>Fig. 2</b>	<b>Single Row Surface Mount Z-Bend Socket</b>
	<p>851-13-0__-40-001000</p> <p>Specify # of pins      <math>\rightarrow</math>      02-20</p>

For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select  $\diamond$  plating code.

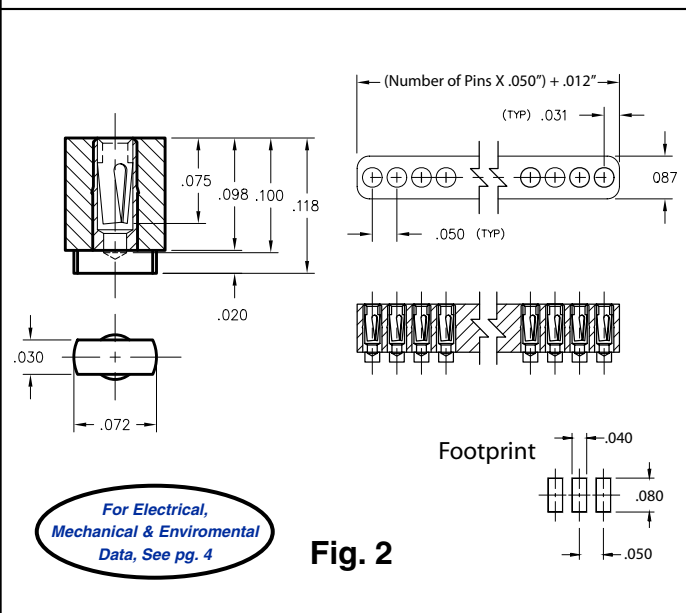
SPECIFY PLATING CODE XX=	13						
Sleeve (Pin)	10 $\mu$ " Au						
Contact (Clip)	30 $\mu$ " Au						



**XX=Plating Code**  
**See Below**



- Series 340 and 399 interconnects are single row headers and sockets having unique surface mount "block" terminals.
- "Block" termination makes the interconnects "self-standing". This also minimizes profile and reduces the footprint compared with traditional "gull wing" designs.
- Series 399 is a matched pair of .050" pitch sockets and headers with a mated height of only .218".
- Series 340 is a .100" pitch SIP socket using Mill-Max #30 contact (Data on page 218). The profile is only .200".
- Insulators are high temp. thermoplastic, suitable for all soldering processes.



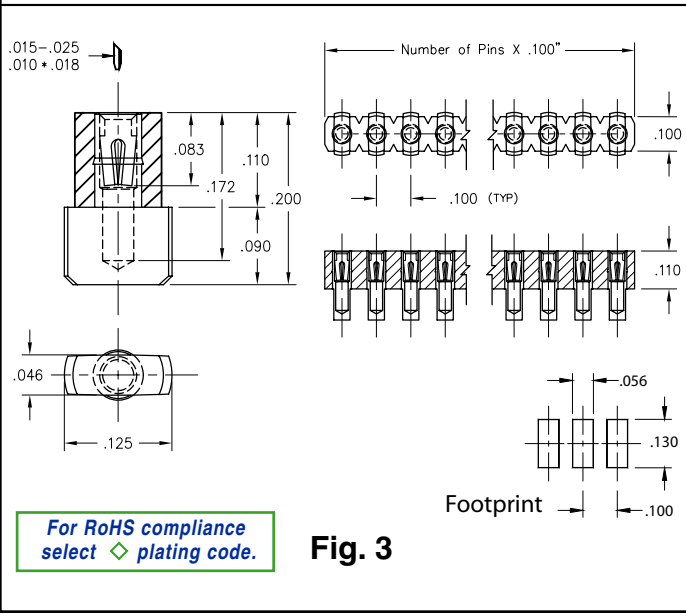
**For Electrical,  
 Mechanical & Environmental  
 Data, See pg. 4**

**Ordering Information**

<b>Fig. 1</b>	<b>Single Row Header, .050" Grid</b>	
	399-10-0XX-00-310000	
	Plating Code	Specify # of pins 02-50

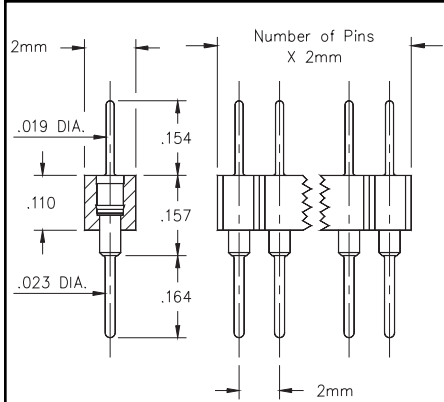
PLATING CODE	10◇	
Pin Plating	10μ" Au	

<b>Fig. 2</b>	<b>Single Row Socket, .050" Grid</b>	
	399-XX-0XX-21-300000	
	Plating Code	Specify # of pins 02-50
	SPECIFY PLATING CODE XX=	91      41◇
	Sleeve (Pin)	200μ" Sn/Pb      200μ" Sn
	Contact (Clip)	10μ" Au      10μ" Au



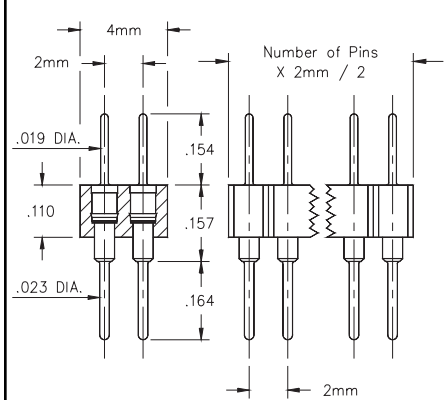
**For RoHS compliance  
 select ◇ plating code.**

<b>Fig. 3</b>	<b>Single Row Socket, .100" Grid</b>	
	340-XX-1XX-30-780100	
	Plating Code	Specify # of pins 02-64
	SPECIFY PLATING CODE XX=	99      44◇
	Sleeve (Pin)	200μ" Sn/Pb      200μ" Sn
	Contact (Clip)	200μ" Sn/Pb      200μ" Sn



**Fig. 1**

- Series 830 single and double row interconnects have 2mm pin spacing and permit board stacking as low as .322".
- Pin headers (830 & 832 series) use MM #5012 pins. See page 175 for details.
- Sockets (831 & 833 series) use MM #1802 receptacles and accept pin diameters from .015"-.025". See page 140 for details.
- Insulators are high temp. thermoplastic, suitable for all soldering operations.



**Fig. 2**

### Ordering Information

**Fig. 1**

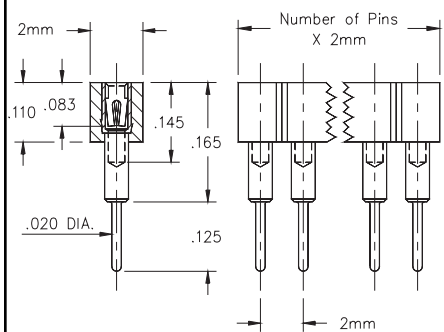
#### Single Row Pin Header

830-XX-0\_\_-10-001000  
Specify # of pins → 01-50

**Fig. 2**

#### Double Row Pin Header

832-XX-\_\_-10-001000  
Specify # of pins → 002-100



**Fig. 3**

*For Electrical, Mechanical & Environmental Data, See pg. 4*

*XX=Plating Code See Below*

*For RoHS compliance select ◇ plating code.*

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

**Fig. 3**

#### Single Row Socket

831-XX-0\_\_-10-001000  
Specify # of pins → 01-50

**Fig. 4**

#### Double Row Socket

833-XX-\_\_-10-001000  
Specify # of pins → 002-100

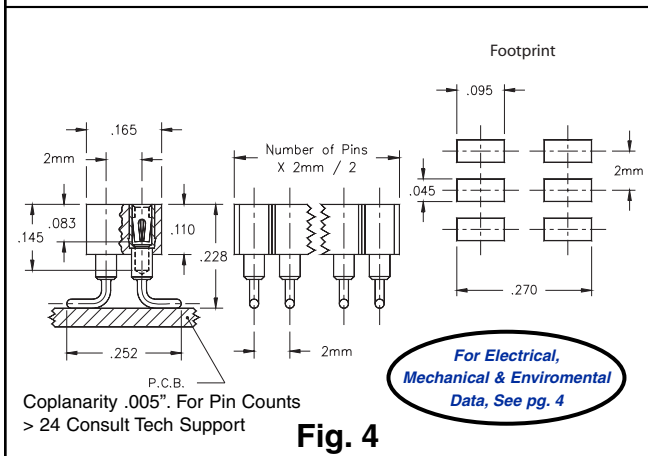
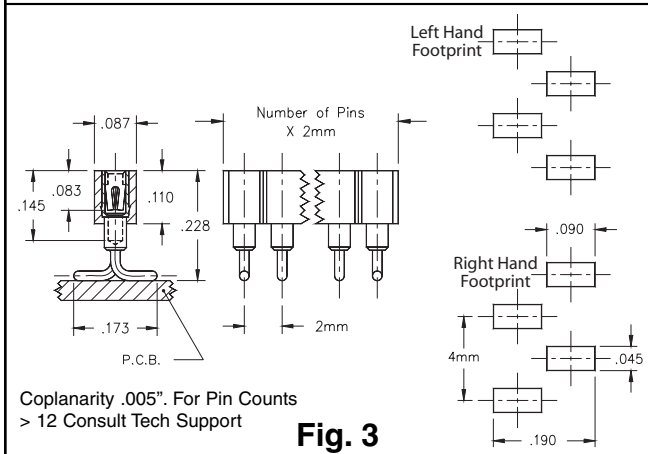
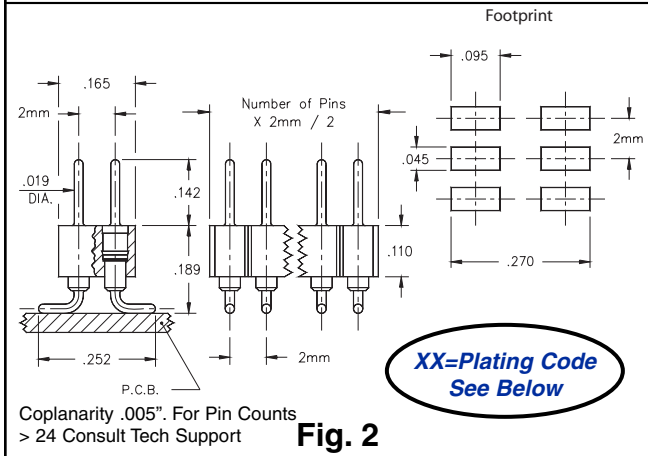
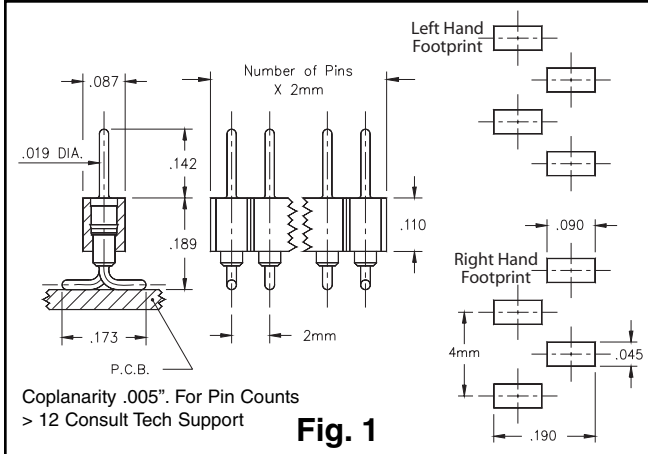
*For Electrical, Mechanical & Environmental Data, See pg. 4*

*XX=Plating Code See Below*

*For RoHS compliance select ◇ plating code.*

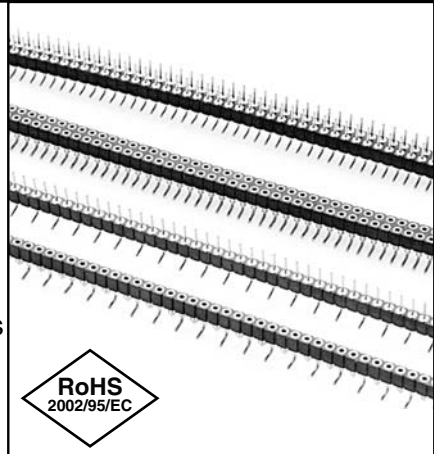
SPECIFY PLATING CODE XX=		93		43◇	
Sleeve (Pin)		200μ" Sn/Pb		200μ" Sn	
Contact (Clip)		30μ" Au		30μ" Au	



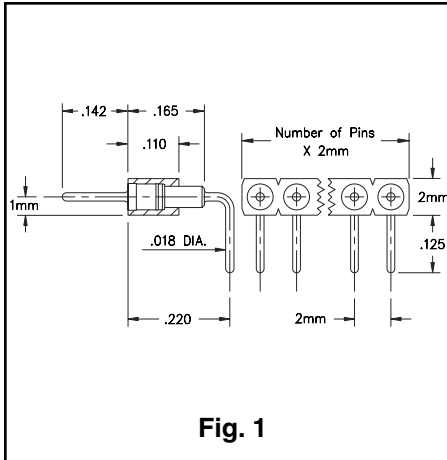


- Headers (830 & 832) use MM# 6218 pins. See page 175 for details.
- Sockets (831 & 833) use MM# 1802 receptacles and accept pin diameters from .015-.025. See page 140 for details.
- Coplanarity .005" (Single Row max 12 pins; Double Row max 24 pins) for higher pin counts contact technical support.
- Insulators are high temp. thermoplastic.

For RoHS compliance  
select ◇ plating code.

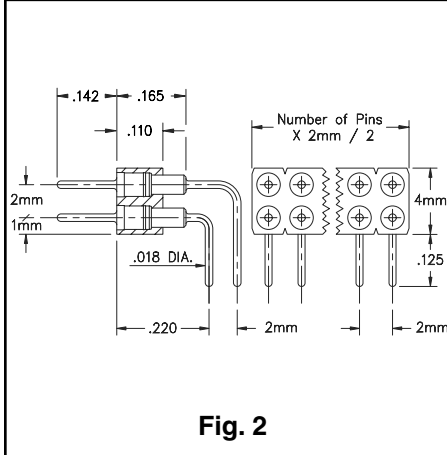
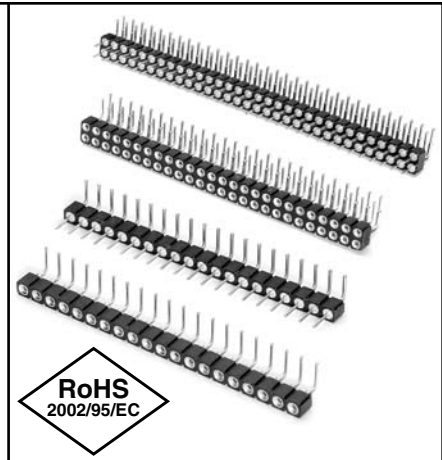


<b>Ordering Information</b>			
<b>Fig. 1L</b>	<b>Single Row Header, Left Hand Footprint Odd or Even # of pins</b>		
	830-XX-0__-30-001000 Specify # of pins → 01-50		
<b>Fig. 1R</b>	<b>Single Row Header, Right Hand Footprint Even # of pins</b>		
	830-XX-0__-30-002000 Specify even # of pins → 02-50		
<b>Fig. 2</b>	<b>Double Row Header, Even # of pins</b>		
	832-XX-__-30-001000 Specify even # of pins → 004-100		
SPECIFY PLATING CODE XX=		10◇	90
Pin Plating		10μ" Au	200μ" Sn/Pb
<b>Fig. 3L</b>	<b>Single Row Socket, Left Hand Footprint Odd or Even # of pins</b>		
	831-XX-0__-30-001000 Specify # of pins → 01-50		
<b>Fig. 3R</b>	<b>Single Row Socket, Right Hand Footprint Even # of pins</b>		
	831-XX-0__-30-002000 Specify even # of pins → 02-50		
<b>Fig. 4</b>	<b>Double Row Socket, Even # of pins</b>		
	833-XX-__-30-001000 Specify even # of pins → 004-100		
SPECIFY PLATING CODE XX=		93	43◇
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn
Contact (Clip)		30μ" Au	30μ" Au



**Fig. 1**

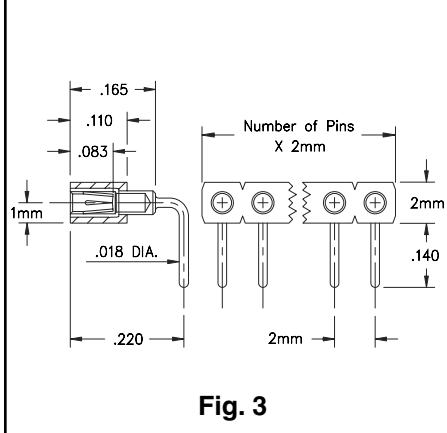
- Series 830 & 832 use MM #3790 & MM #3796 pins. See page 176 for details.
- Series 831 & 833 use MM #1805 and MM #3805 receptacles and accept pin diameters from .015"-.025". See page 140 for details.
- Receptacles use Hi-Rel, 6 finger BeCu #43 contact rated at 3 amps. See page 220 for details.
- Insulators are high temp. thermoplastic.



**Fig. 2**

**Ordering Information**

<b>Fig. 1</b>	<b>830...001 Single Row Right Angle Header</b>
	830-10-0__-20-001000 Specify # of pins → 01-50
<b>Fig. 2</b>	<b>832...001 Double Row Right Angle Header</b>
	832-10-__-20-001000 Specify # of pins → 002-100



**Fig. 3**

*For Electrical, Mechanical & Environmental Data, See pg. 4*

*For RoHS compliance select ◇ plating code.*

PLATING CODE =	10 ◇		
Pin Plating	10μ" Au		

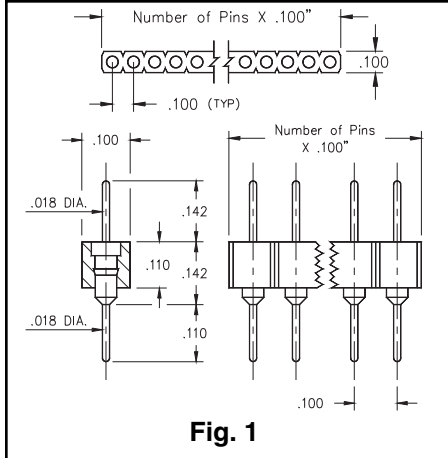
<b>Fig. 3</b>	<b>831...001 Single Row Right Angle Socket</b>
	831-43-0__-20-001000 Specify # of pins → 01-50
<b>Fig. 4</b>	<b>833...001 Double Row Right Angle Socket</b>
	833-43-__-20-001000 Specify # of pins → 002-100

*For Electrical, Mechanical & Environmental Data, See pg. 4*

*For RoHS compliance select ◇ plating code.*

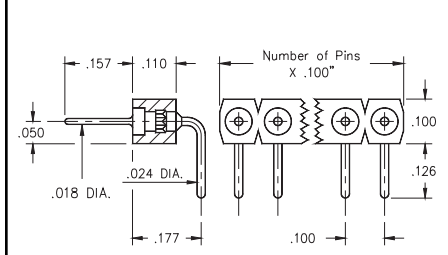
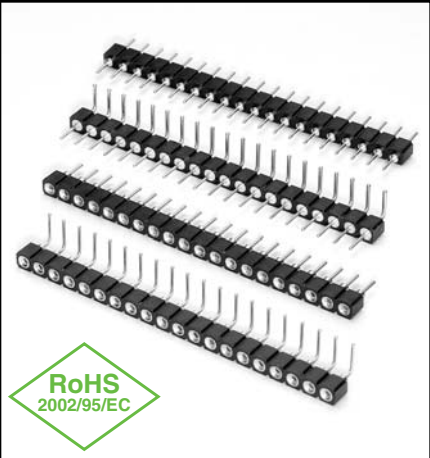
PLATING CODE =					43 ◇
Sleeve (Pin)					200μ" Sn
Contact (Clip)					30μ" Au

Downloaded from [Arrow.com](http://Arrow.com)



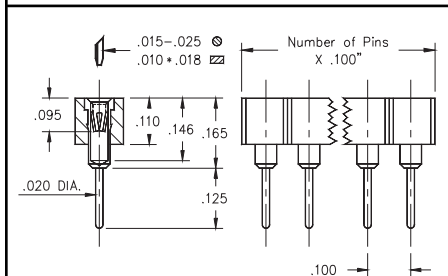
**Fig. 1**

- Series 3XX are available with straight and right angle solder tails.
- Series 350 & 399...009 use MM #3404 and #5011 pins. See pages 179 & 181 for details.
- Series 301, 310 & 399...003 use MM #0156, #1001 & #1103 receptacles. See pages 136 & 137 for details.
- Receptacles use Hi-Rel, 4 finger #30 BeCu contact rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



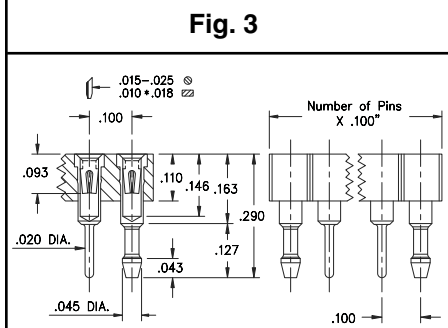
**Fig. 2**

<b>Ordering Information</b>	
<b>Fig. 1</b>	<b>Series 350...006      Straight Pin Header</b>
	350-XX-1__-00-006000 Specify # of pins → 01-64
<b>Fig. 2</b>	<b>Series 399...009      Right Angle Pin Header</b>
	399-XX-1__-10-009000 Specify # of pins → 02-64



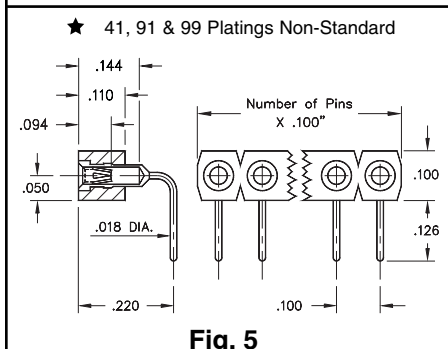
**Fig. 3**

<i>For Electrical, Mechanical &amp; Environmental Data, See pg. 4</i>	<b>XX=Plating Code See Below</b>	<i>For RoHS compliance select ◇ plating code.</i>
SPECIFY PLATING CODE XX=	10◇	90
Pin Plating	10μ" Au	200μ" Sn/Pb



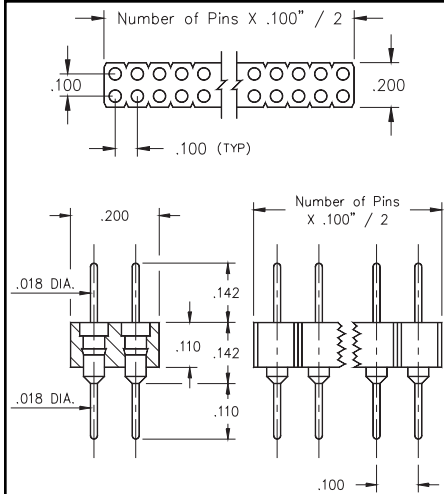
**Fig. 4**

<b>Fig. 3</b>	<b>Series 310...001      Straight Socket</b>
	310-XX-1__-41-001000 Specify # of pins → 01-64
<b>Fig. 4</b>	<b>Series 301...056      Socket w/ Retention Pegs</b>
	301-XX-1__-41-560000 Specify # of pins → 01-64



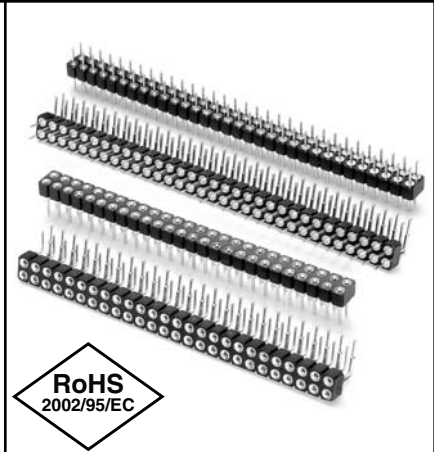
**Fig. 5**

<b>Fig. 5</b>	<b>Series 399...003      Right Angle Socket</b>						
	399-XX-1__-10-003000 Specify # of pins → 01-64						
<i>For Electrical, Mechanical &amp; Environmental Data, See pg. 4</i>	<b>XX=Plating Code See Below</b>	<i>For RoHS compliance select ◇ plating code.</i>					
SPECIFY PLATING CODE XX=	13◇	91	93	99	41◇	43◇	44◇
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn	200μ" Sn	200μ" Sn
Contact (Clip)	30μ" Au	10μ" Au	30μ" Au	200μ" Sn/Pb	10μ" Au	30μ" Au	200μ" Sn

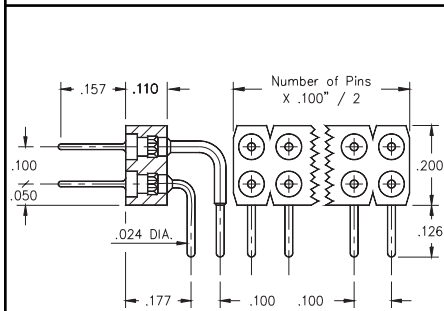


**Fig. 1**

- Series 4XX are available with straight and right angle solder tails.
- Series 450 & 499...009 use MM #3404 and #5011/5113 pins. See pages 179 & 181 for details.
- Series 410 & 499...003 use MM #1001 and #1103/1602 receptacles. See pages 136, 137 & 138 for details.
- Receptacles use Hi-Rel, 4 finger #30 BeCu contact rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



**Ordering Information**



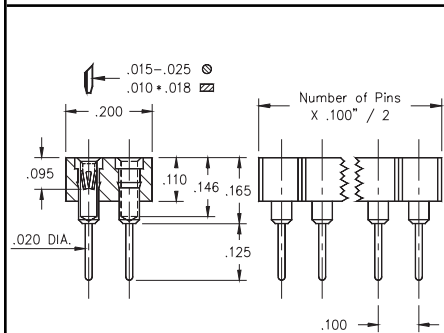
**Fig. 2**

**Fig. 1**

<b>Series 450...006</b>	<b>Straight Pin Header</b>
450-XX-2__-00-006000	
<b>Specify # of pins</b>	└── 02-64

**Fig. 2**

<b>Series 499...009</b>	<b>Right Angle Pin Header</b>
499-10-2__-10-009000	
<b>Specify # of pins</b>	└── 02-64



**Fig. 3**

For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select ◇ plating code.

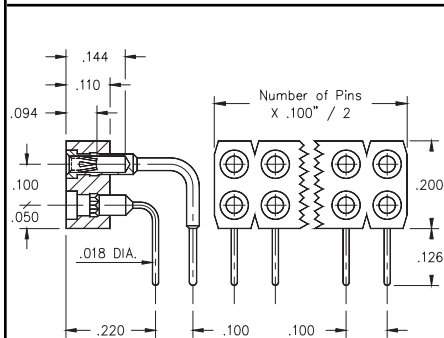
SPECIFY PLATING CODE XX=	<span style="color: green;">10◇</span>	90	<span style="color: green;">40◇</span>	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

**Fig. 3**

<b>Series 410...001</b>	<b>Straight Socket</b>
410-XX-2__-41-001000	
<b>Specify # of pins</b>	└── 02-64

**Fig. 4**

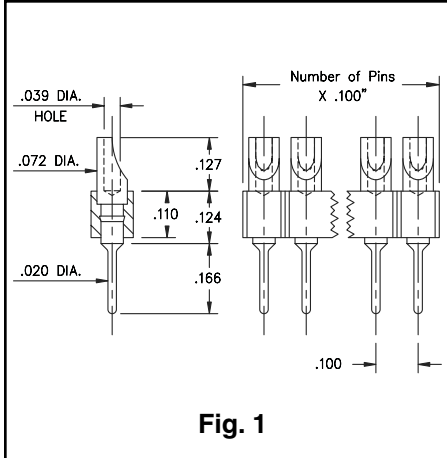
<b>Series 499...003</b>	<b>Right Angle Socket</b>
499-XX-2__-10-003000	
<b>Specify # of pins</b>	└── 02-64



**Fig. 4**

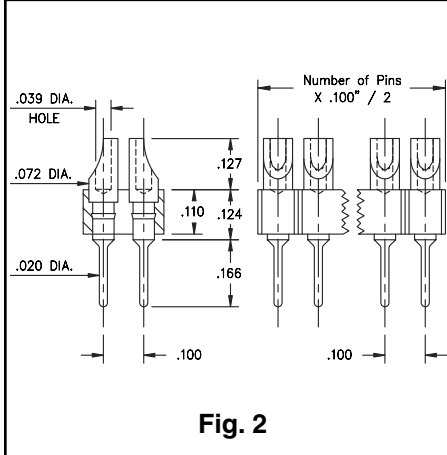
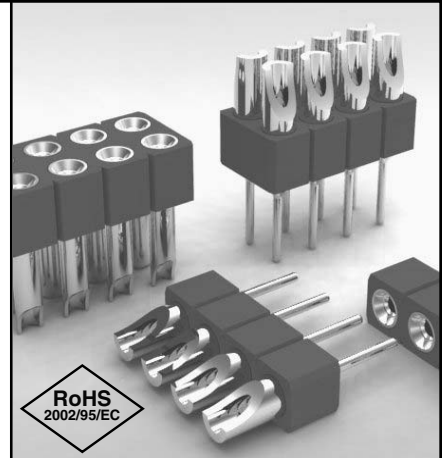
For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	<span style="color: green;">13◇</span>				<span style="color: green;">43◇</span>
Sleeve (Pin)	10μ" Au				200μ" Sn
Contact (Clip)	30μ" Au				30μ" Au



**Fig. 1**

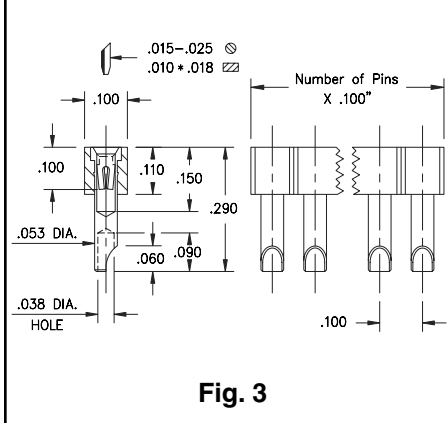
- Series 380 & 480 use MM #8000 pins. See page 183 for details.
- Series 329 & 429 use MM #2954 pin receptacles and accept pin diameters from .015"-.025". See page 142 for details.
- Series 329 & 429 receptacles use Hi-Rel, 4 finger BeCu #30 contacts rated at 3 amps. See page 218 for details.
- Solder cups are pre-aligned.
- Insulators are high temp. thermoplastic.



**Fig. 2**

**Ordering Information**

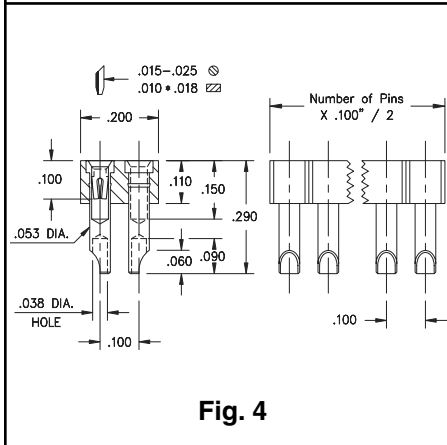
<b>Fig. 1</b>	<b>Series 380...001</b>	<b>Solder Cup / Solder Tail</b>
	380-XX-1 _ _ -00-001000	Specify # of pins → 01-64
<b>Fig. 2</b>	<b>Series 480...001</b>	<b>Solder Cup / Solder Tail</b>
	480-10-2 _ _ -00-001000	Specify # of pins → 02-64



**Fig. 3**

For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	10 ◇	90 ◇	40 ◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	



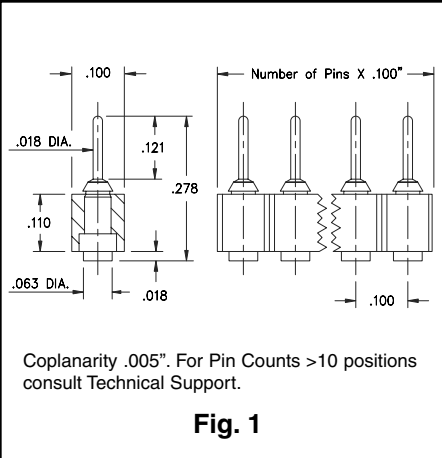
**Fig. 4**

<b>Fig. 3</b>	<b>Series 329...540</b>	<b>Solder Cup Sockets</b>
	329-43-1 _ _ -41-540000	Specify # of pins → 01-64
<b>Fig. 4</b>	<b>Series 429...540</b>	<b>Solder Cup Sockets</b>
	429-43-2 _ _ -41-540000	Specify # of pins → 02-64

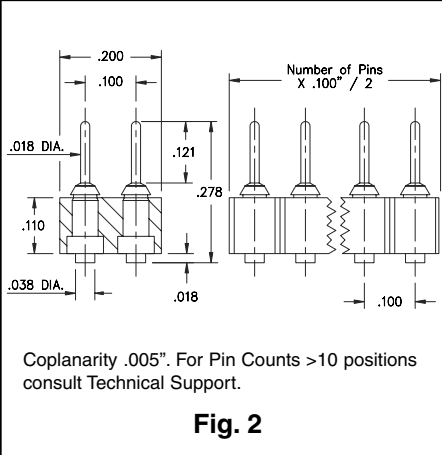
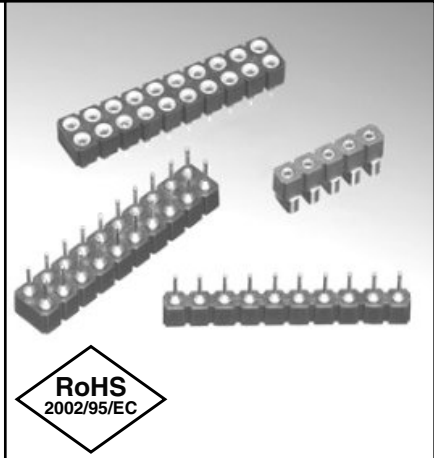
For Electrical, Mechanical & Environmental Data, See pg. 4
For RoHS compliance select ◇ plating code.

PLATING CODE =				43 ◇		
Sleeve (Pin)				200μ" Sn		
Contact (Clip)				30μ" Au		

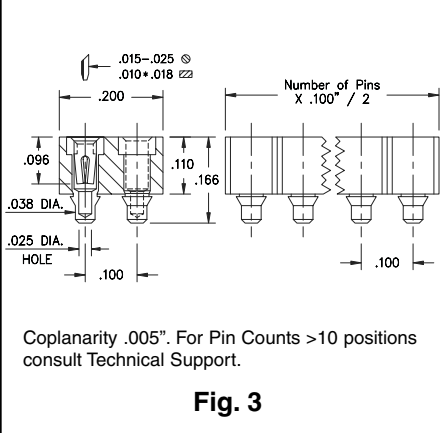
Downloaded from [Arrow.com](http://Arrow.com)



- Series 329 and 429 pin interconnects offer vertical Surface Mount MM #2956-X solder tails. See page 185 for details.
- Series 340 Surface mount sockets use MM #4078 pins. Series 414 sockets use MM #1434 pins. See pages 133 and 138 for details.
- Series 340 and 414 receptacles use Hi-Rel, 4-finger BeCu #30 contacts rated at 3 amps. Receptacles accept .015"-.025" diameter pins. See page 218 for details.
- Insulators are high temp. thermoplastic.



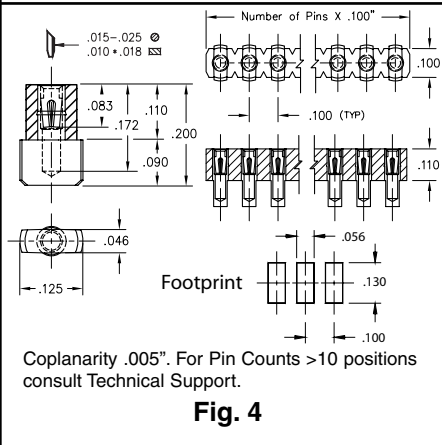
<b>Ordering Information</b>	
<b>Fig. 1</b>	<b>Series 329...560      Surface Mount Pin Header</b>  329-10-1 _ _ -00-560000 Specify # of pins      →      02-64
	<b>Series 429...560      Surface Mount Pin Header</b>  429-10-2 _ _ -00-560000 Specify # of pins      →      04-72



*For Electrical, Mechanical & Environmental Data, See pg. 4*

*For RoHS compliance select ◇ plating code.*

PLATING CODE =	10 ◇			
Pin Plating	10 μ" Au			



*For Electrical, Mechanical & Environmental Data, See pg. 4*

*For RoHS compliance select ◇ plating code.*

PLATING CODE =					43 ◇
Sleeve (Pin)					200μ" Sn
Contact (Clip)					30 μ" Au

**Mates w/ Series 310...023 Surface Mount Z-Bend Socket (See Fig. 3)**

Coplanarity .005". For Pin Counts >10 positions consult Technical Support.

**Fig. 1**

- Series 351 and 800 horizontal Surface Mount headers are available with .018" dia. pluggable pins (MM #5102) and .028" dia. pluggable pins (MM #1502). See page 185 for details.
- Series 310 horizontal Surface Mount Z-Bend sockets use MM #1023 receptacles that accept pin diameters from .015"-.025". Series 801 use MM #1303 receptacles that accept pin diameters from .025"-.037" and .025" square leads. See pages 142 and 150 for details.
- Insulators are high temp. thermoplastic.



**Mates w/ Series 801...002 Surface Mount Z-Bend Socket (See Fig. 4)**

Coplanarity .005". For Pin Counts >10 positions consult Technical Support.

**Fig. 2**

<b>Ordering Information</b>	
<b>Fig. 1</b>	<b>Series 351...002 .018 Dia. Surface Mount Header</b>  351-10-1__-40-002000 Specify # of pins      →      02-10
	<b>Series 800...002 .028 Dia. Surface Mount Header</b>  800-10-0__-40-002000 Specify # of pins      →      02-10

**Mates w/ Series 351...002 Surface Mount Header (See Fig. 1)**

Coplanarity .005". For Pin Counts >10 positions consult Technical Support.

**Fig. 3**

*For Electrical,  
Mechanical & Environmental  
Data, See pg. 4*

*For RoHS compliance  
select ◇ plating code.*

**Mates w/ Series 800...002 Surface Mount Header (See Fig. 2)**

Coplanarity .005". For Pin Counts >10 positions consult Technical Support.

**Fig. 4**

PLATING CODE =		10 ◇			
Pin Plating		10 μ" Au			
<b>Fig. 3</b>	<b>Series 310...023 .018 Dia. SMT Z-Bend Socket</b>  310-43-1__-40-023000 Specify # of pins      →      02-10				
	<b>Series 801...002 .028 Dia. SMT Z-Bend Socket</b>  801-XX-0__-40-002000 Specify # of pins      →      02-10				

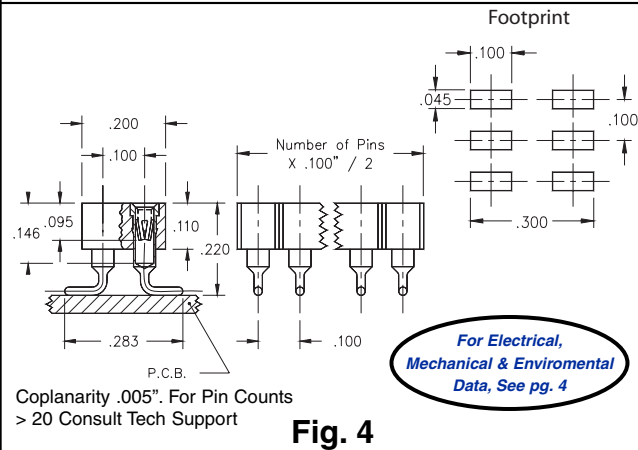
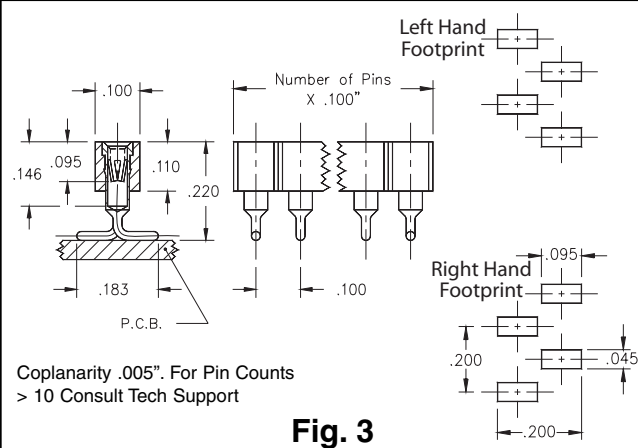
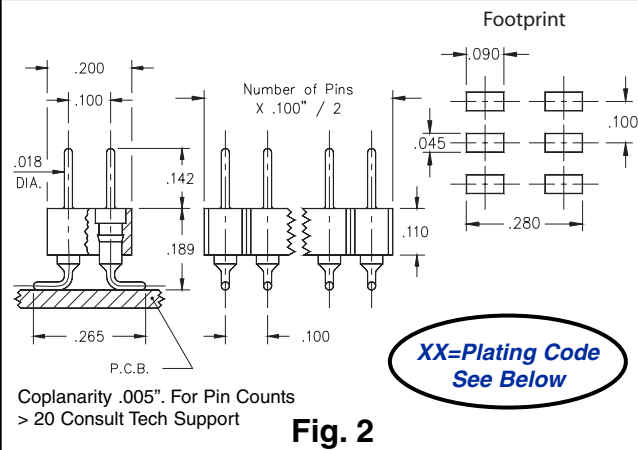
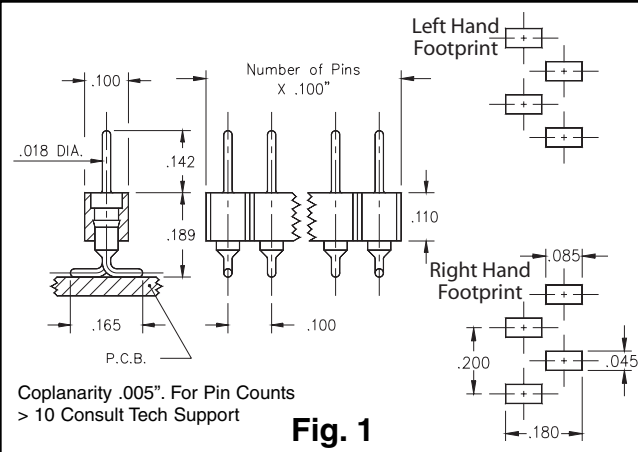
*For Electrical,  
Mechanical & Environmental  
Data, See pg. 4*

**XX=Plating Code  
See Below**

*For RoHS compliance  
select ◇ plating code.*

SPECIFY PLATING CODE XX=		93	99	43 ◇	44 ◇
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn	200μ" Sn
Contact (Clip)		30μ" Au	200μ" Sn/Pb	30μ" Au	200μ" Sn

Downloaded from [Arrow.com](http://Arrow.com)



- Headers (350 & 450) use MM# 3404 pins. See page 179 for details.
- Sockets (310 & 410) use MM# 1005 receptacles and accept pin diameters from .015-.025. See page 137 for details.
- Coplanarity .005" (Single Row max 10 pins; Double Row max 20 pins). For higher pin counts contact technical support.
- Insulators are high temp. thermoplastic.

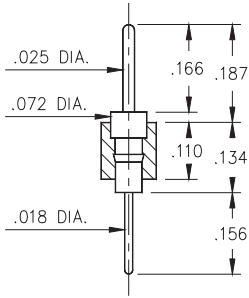


For RoHS compliance select  $\diamond$  plating code.

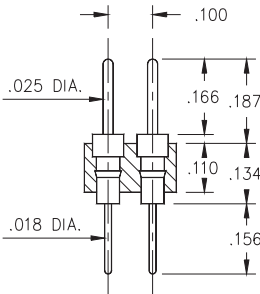
**Ordering Information**

<b>Fig. 1L</b>	<b>Single Row Header, Left Hand Footprint</b> Odd or Even # of pins	350-XX-1_ _-00-106000		
	<b>Specify # of pins</b>	02-64		
<b>Fig. 1R</b>	<b>Single Row Header, Right Hand Footprint</b> Even # of pins	350-XX-1_ _-00-107000		
	<b>Specify even # of pins</b>	02-64		
<b>Fig. 2</b>	<b>Double Row Header, Even # of pins</b>	450-XX-2_ _-00-106000		
	<b>Specify even # of pins</b>	04-72		
SPECIFY PLATING CODE XX=		10 $\diamond$	90	40 $\diamond$
Pin Plating		10 $\mu$ " Au	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn
<b>Fig. 3L</b>	<b>Single Row Socket, Left Hand Footprint</b> Odd or Even # of pins	310-43-1_ _-41-105000		
	<b>Specify # of pins</b>	02-64		
<b>Fig. 3R</b>	<b>Single Row Socket, Right Hand Footprint</b> Even # of pins	310-43-1_ _-41-107000		
	<b>Specify even # of pins</b>	02-64		
<b>Fig. 4</b>	<b>Double Row Socket, Even # of pins</b>	410-43-2_ _-41-105000		
	<b>Specify even # of pins</b>	04-72		
PLATING CODE =				43 $\diamond$
Sleeve (Pin)				200 $\mu$ " Sn
Contact (Clip)				30 $\mu$ " Au

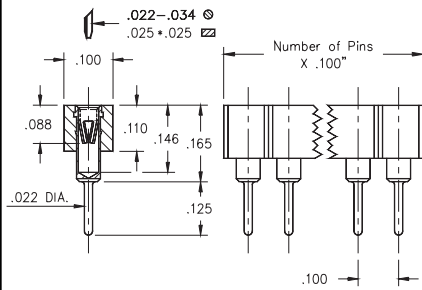




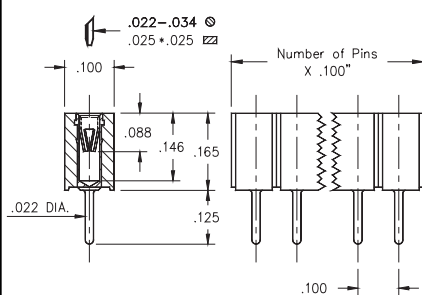
**Fig. 1**



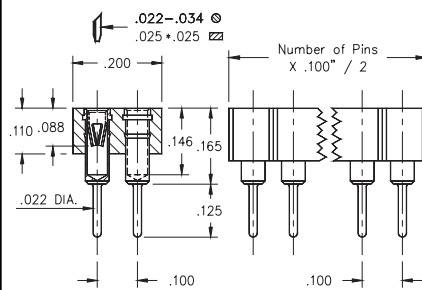
**Fig. 2**



**Fig. 3**

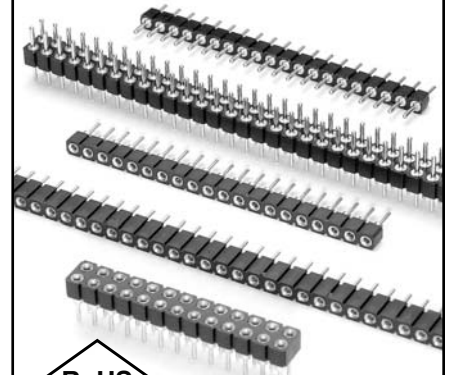


**Fig. 4**



**Fig. 5**

- Series 350 & 450 single and double row headers use MM #0290 pins. See page 182 for details.
- Series 801 & 803 single and double row low profile sockets use MM #1303 pins. See page 150 for details.
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #16 contacts rated at 4.5 amps. Receptacles accept .025" diameter and .025" square pins. See page 221 for details.
- Insulators are high temp. thermoplastic.



**Ordering Information**

<b>Fig. 1</b>	<b>Single Row</b>	<b>.025 Pin / .018 Solder Tail</b>
	350-XX-1 __ -00-001000	Specify # of pins → 01-64
<b>Fig. 2</b>	<b>Double Row</b>	<b>.025 Pin / .018 Solder Tail</b>
	450-XX-2 __ -00-001000	Specify # of pins → 02-64

*For Electrical, Mechanical & Environmental Data, See pg. 4*

**XX=Plating Code See Below**

*For RoHS compliance select ◇ plating code.*

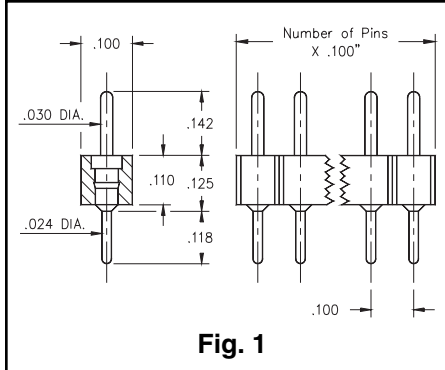
SPECIFY PLATING CODE XX=	<b>10</b> ◇	<b>90</b>	<b>40</b> ◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

<b>Fig. 3</b>	<b>Single Row Low Profile Socket (short insulator)</b>	801-43-0 __ -10-003000	Specify # of pins → 01-64
	<b>Fig. 4</b>	<b>Single Row Low Profile Socket (long insulator)</b>	801-43-0 __ -10-013000
<b>Fig. 5</b>	<b>Double Row Low Profile Socket</b>	803-43-0 __ -10-003000	Specify # of pins → 02-72

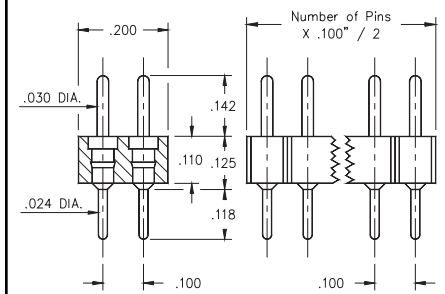
*For Electrical, Mechanical & Environmental Data, See pg. 4*

*For RoHS compliance select ◇ plating code.*

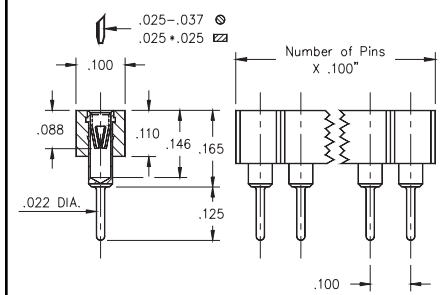
PLATING CODE =					<b>43</b> ◇
Sleeve (Pin)					200μ" Sn
Contact (Clip)					30μ" Au



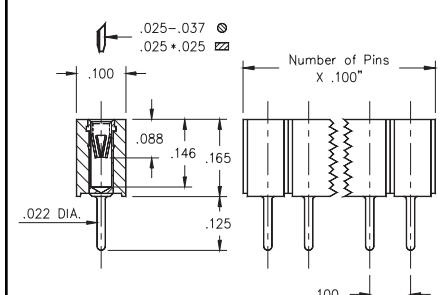
**Fig. 1**



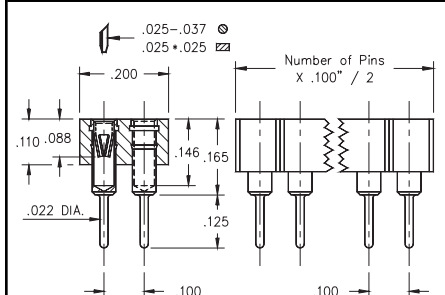
**Fig. 2**



**Fig. 3**

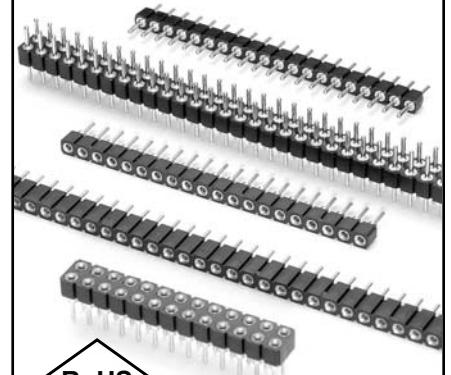


**Fig. 4**



**Fig. 5**

- Series 800 and 802 single and double row pin headers use MM #5016 pins. See page 182 for details.
- Series 801 and 803 single and double row sockets use MM #1303 pins. See page 150 for details.
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #47 contacts rated at 4.5 amps. Receptacles accept .025" diameter and .025" square pins. See page 221 for details.
- Insulators are high temp. thermoplastic.



**Ordering Information**

<b>Fig. 1</b>	<b>Single Row Low Profile Pin Header</b>	800-XX-0__-10-002000
	Specify # of pins	01-64
<b>Fig. 2</b>	<b>Double Row Low Profile Pin Header</b>	802-XX-0__-10-002000
	Specify # of pins	02-64

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select  $\diamond$  plating code.

SPECIFY PLATING CODE XX=	10 $\diamond$	90	40 $\diamond$	
Pin Plating	10 $\mu$ " Au	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn	

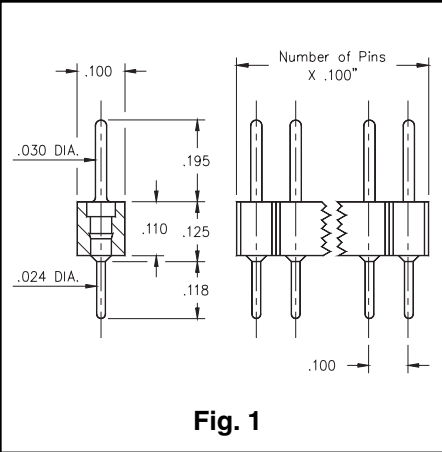
<b>Fig. 3</b>	<b>Single Row Low Profile Socket (short insulator)</b>	801-XX-0__-10-002000
	Specify # of pins	01-64
<b>Fig. 4</b>	<b>Single Row Low Profile Socket (long insulator)</b>	801-XX-0__-10-012000
	Specify # of pins	01-36
<b>Fig. 5</b>	<b>Double Row Low Profile Socket</b>	803-XX-0__-10-002000
	Specify # of pins	02-72

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

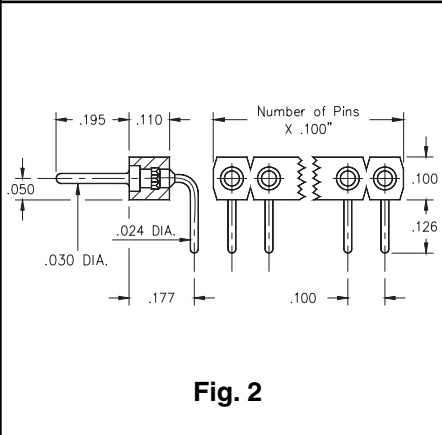
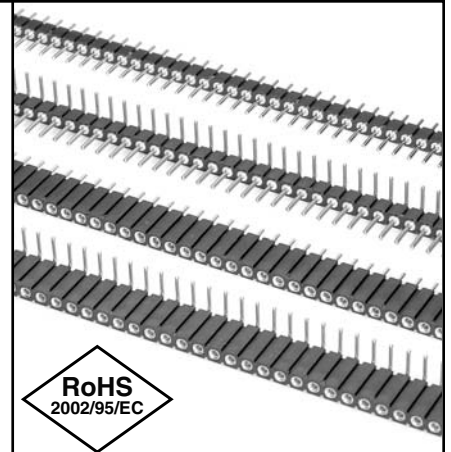
For RoHS compliance select  $\diamond$  plating code.

SPECIFY PLATING CODE XX=		93	99	43 $\diamond$	
Sleeve (Pin)		200 $\mu$ " Sn/Pb	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn	
Contact (Clip)		30 $\mu$ " Au	200 $\mu$ " Sn/Pb	30 $\mu$ " Au	



**Fig. 1**

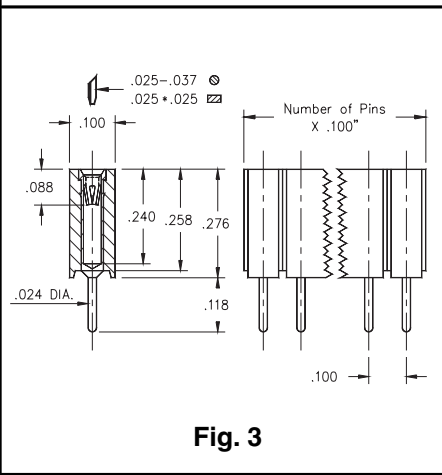
- Pin interconnects available with straight MM #7007 or right angle MM #5005 solder tails. See page 182 for details.
- Sockets are available with straight MM #1304 or right angle MM #1305 solder tails. See pages 148 & 149 for details.
- MM #1304 and MM #1305 receptacles use Hi-Rel, 6-finger BeCu #47 contacts rated at 4.5 amps. Receptacles accept .030" diameter and .025" square pins. See page 221 for details.
- Insulators are high temp. thermoplastic.



**Fig. 2**

**Ordering Information**

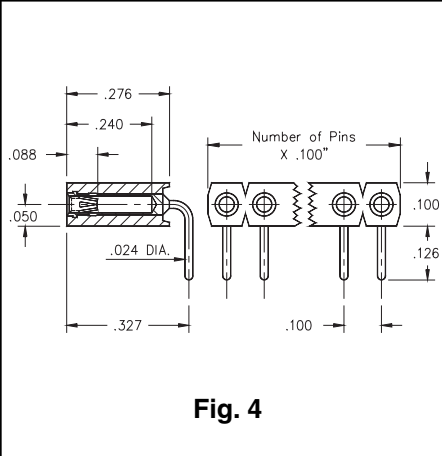
<b>Fig. 1</b>	<b>Series 800...10-001</b>	<b>Straight Pin Header</b>
	800-XX-0__-10-001000	Specify # of pins → 01-64
<b>Fig. 2</b>	<b>Series 800...20-001</b>	<b>Right Angle Pin Header</b>
	800-XX-0__-20-001000	Specify # of pins → 02-64



**Fig. 3**

For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

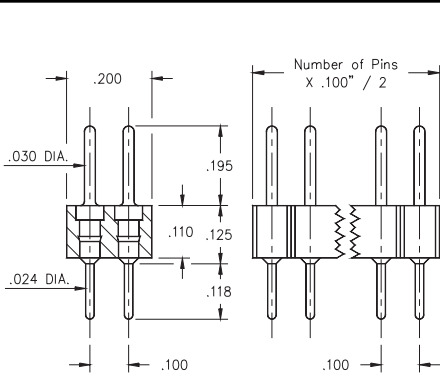


**Fig. 4**

<b>Fig. 3</b>	<b>Series 801...10-001</b>	<b>Straight Socket</b>
	★ 44 Plating Non-Standard 801-XX-0__-10-001000	Specify # of pins → 01-50
<b>Fig. 4</b>	<b>Series 801...20-001</b>	<b>Right Angle Socket</b>
	★ 44 Plating Non-Standard 801-XX-0__-20-001000	Specify # of pins → 01-50

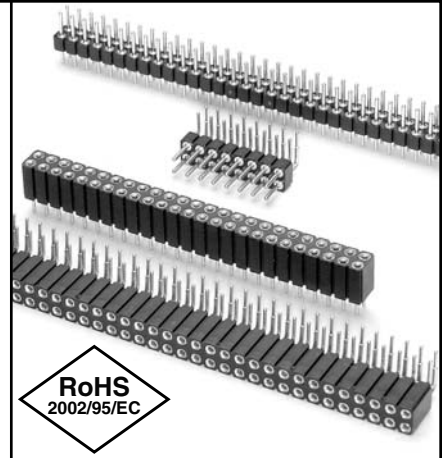
For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=		93	99	43◇	44◇
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn	200μ" Sn
Contact (Clip)		30μ" Au	200μ" Sn/Pb	30μ" Au	200μ" Sn

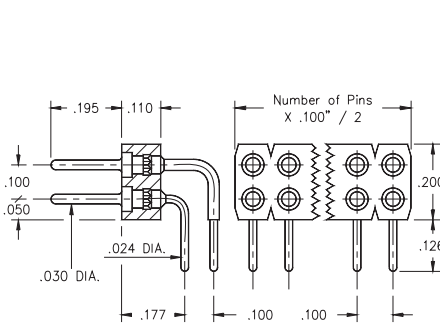


**Fig. 1**

- Pin interconnects available with straight MM #7007 or right angle MM #5005/5107 solder tails. See page 182 for details.
- Sockets are available with straight MM #1304 or right angle MM #1305/1306 solder tails. See pages 148 & 149 for details.
- MM #1304, #1305 & #1306 receptacles use Hi-Rel, 6-finger BeCu #47 contacts rated at 4.5 amps. Receptacles accept .030" diameter and .025" square pins. See page 221 for details.
- Insulators are high temp. thermoplastic.

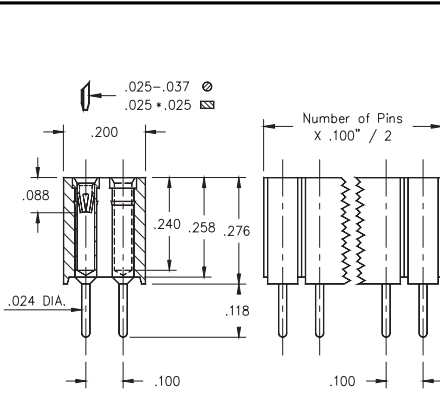


**Ordering Information**



**Fig. 2**

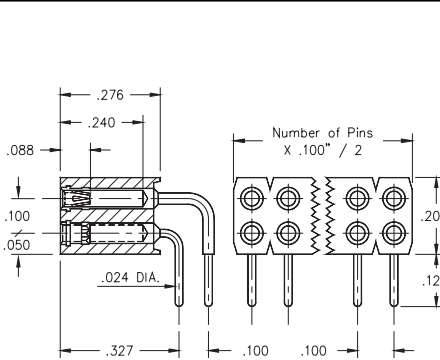
<b>Fig. 1</b>	<b>Series 802...10-001</b>	<b>Straight Pin Header</b>
	802-XX-0__-10-001000	Specify # of pins → 02-64
<b>Fig. 2</b>	<b>Series 802...20-001</b>	<b>Right Angle Pin Header</b>
	802-XX-0__-20-001000	Specify # of pins → 02-64



**Fig. 3**

For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn

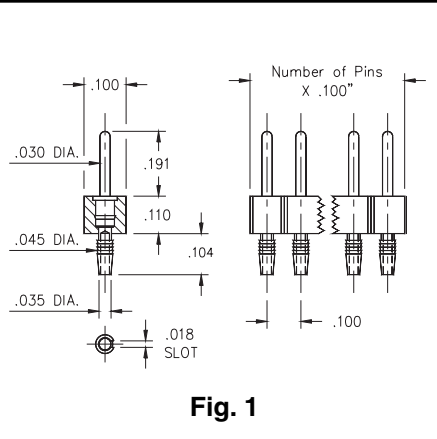


**Fig. 4**

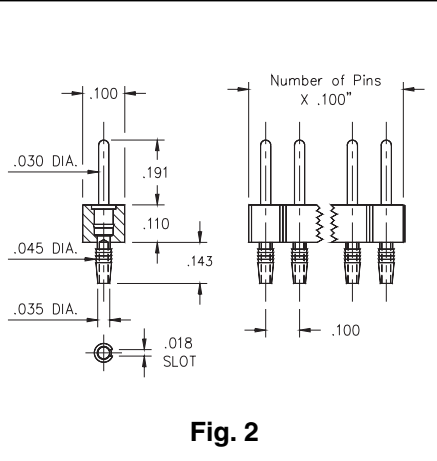
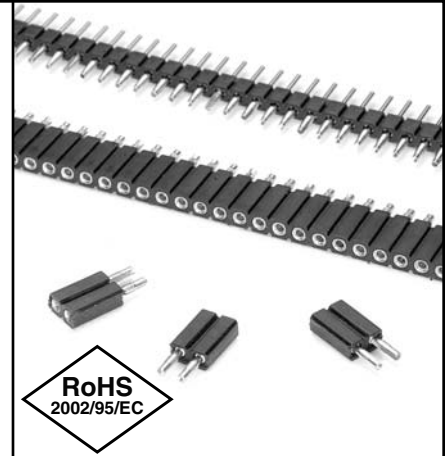
<b>Fig. 3</b>	<b>Series 803...10-001</b>	<b>Straight Socket</b>
	803-XX-__-10-001000	Specify # of pins → 002-100
<b>Fig. 4</b>	<b>Series 803...20-001</b>	<b>Right Angle Socket</b>
	803-XX-__-20-001000	Specify # of pins → 002-100

For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=		93	99	43◇
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn
Contact (Clip)		30μ" Au	200μ" Sn/Pb	30μ" Au



- The unique compliant tail pins conform to .040"±.003" finished hole without stressing inner layers. Patent No. 4,799,904
- Series 800 pin headers are offered in two tail lengths for .060"-.100" (MM #5601) and .090"-.130" (MM #5602) thick panels. See page 187 for details.
- Series 801 sockets MM #4614 or #4615 use Hi-Rel, 6-finger BeCu #47 contacts rated at 4.5 amps. Receptacles accept .030" diameter pins & .025" square pins. See page 221 for details.
- Insulators are high temp. thermoplastic.



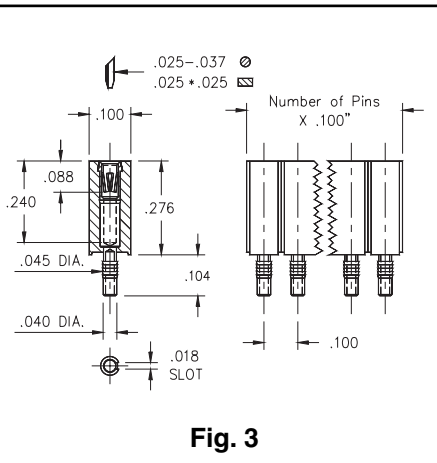
**Ordering Information**

<b>Fig. 1</b>	<b>Compliant Tail Pin Header for .060 - .100" thick boards</b>	
	800-XX-0 __ -61-001000	
	<b>Specify # of pins</b>	└───> 01-64

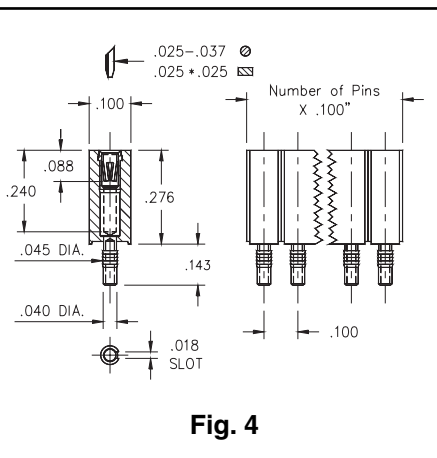
<b>Fig. 2</b>	<b>Compliant Tail Pin Header for .090 - .130" thick boards</b>	
	800-XX-0 __ -62-001000	
	<b>Specify # of pins</b>	└───> 01-64

For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	10 ◇	90	40 ◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	



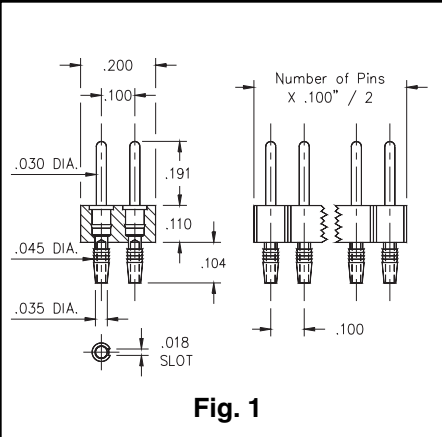
<b>Fig. 3</b>	<b>Compliant Tail Socket for .060 - .100" thick boards</b>	
	801-XX-0 __ -61-001000	
	<b>Specify # of pins</b>	└───> 01-50



<b>Fig. 4</b>	<b>Compliant Tail Socket for .090 - .130" thick boards</b>	
	801-XX-0 __ -62-001000	
	<b>Specify # of pins</b>	└───> 01-50

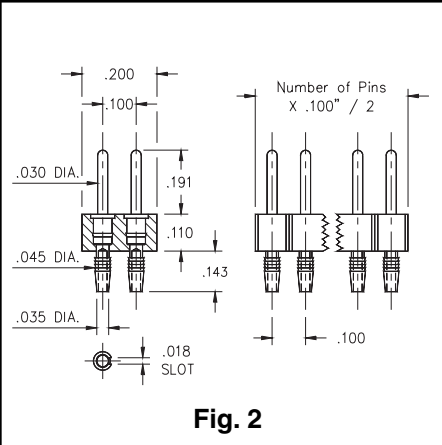
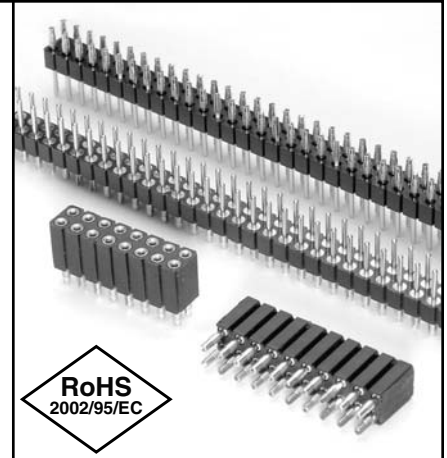
For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=		93	99	43 ◇	
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn	
Contact (Clip)		30μ" Au	200μ" Sn/Pb	30μ" Au	



**Fig. 1**

- The unique compliant tail pins conform to .040"±.003" finished hole without stressing inner layers. Patent No. 4,799,904
- Series 802 pin headers are offered in two tail lengths for .060"-.100" (MM #5601) and .090"-.130" (MM #5602) thick panels. See page 187 for details.
- Series 803 sockets MM #4614 or #4615 use Hi-Rel, 6-finger BeCu #47 contacts rated at 4.5 amps. Receptacles accept .030" diameter pins & .025" square pins. See page 221 for details.
- Insulators are high temp. thermoplastic.



**Fig. 2**

**Ordering Information**

**Fig. 1**

**Compliant Tail Pin Header  
for .060 - .100" thick boards**

802-XX-0 \_\_ -61-001000

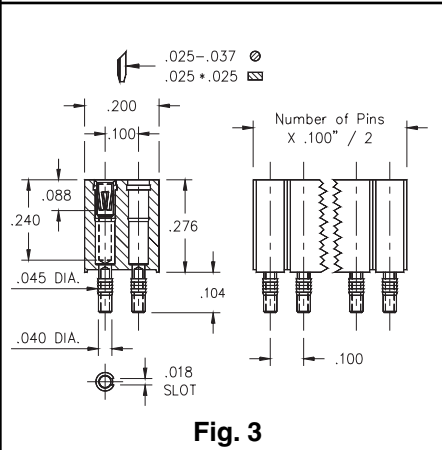
Specify # of pins      ↪      02-64

**Fig. 2**

**Compliant Tail Pin Header  
for .090 - .130" thick boards**

802-XX-0 \_\_ -62-001000

Specify # of pins      ↪      02-64



**Fig. 3**

*For Electrical, Mechanical & Environmental Data, See pg. 4*

*XX=Plating Code See Below*

*For RoHS compliance select ◇ plating code.*

SPECIFY PLATING CODE XX=	10 ◇	90	40 ◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

**Fig. 3**

**Compliant Tail Socket  
for .060 - .100" thick boards**

803-XX-\_\_ -61-001000

Specify # of pins      ↪      002-100

**Fig. 4**

**Compliant Tail Socket  
for .090 - .130" thick boards**

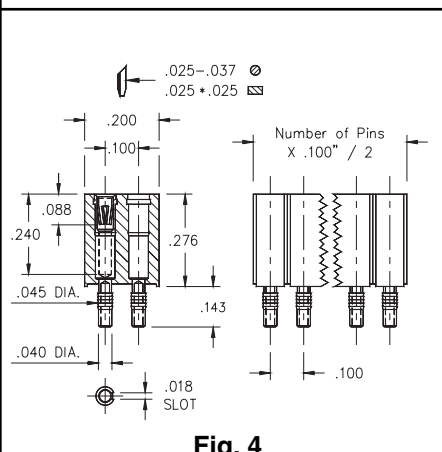
803-XX-\_\_ -62-001000

Specify # of pins      ↪      002-100

*For Electrical, Mechanical & Environmental Data, See pg. 4*

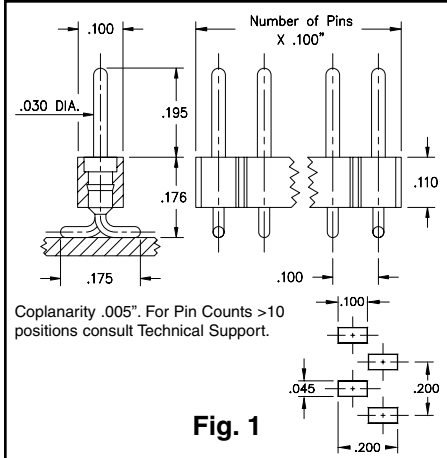
*XX=Plating Code See Below*

*For RoHS compliance select ◇ plating code.*



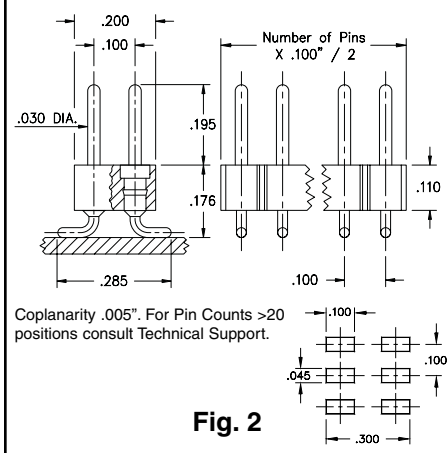
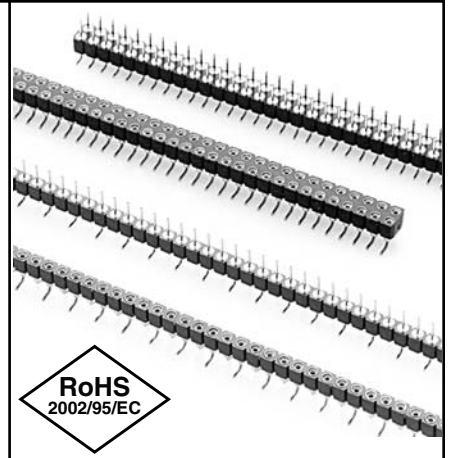
**Fig. 4**

SPECIFY PLATING CODE XX=		93	99	43 ◇	
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn	
Contact (Clip)		30μ" Au	200μ" Sn/Pb	30μ" Au	



**Fig. 1**

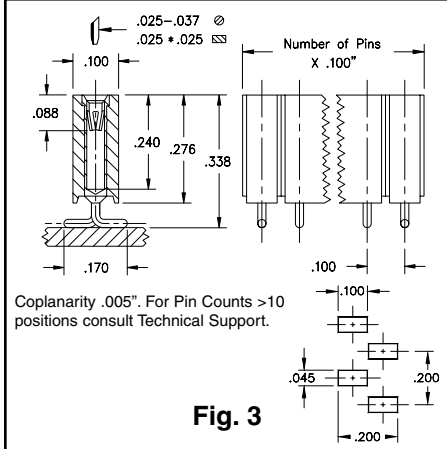
- Series 800 & 802 use MM #7007 pins. See page 182 for details.
- Series 801 & 803 use MM #1304 receptacles and accept pin diameters from .025"-.037" and .025" square pins. See page 148 for details.
- Receptacles use Hi-Rel, 6 finger BeCu #47 contact rated at 4.5 amps. See page 221 for details.
- Insulators are high temp. thermoplastic.



**Fig. 2**

**Ordering Information**

<b>Fig. 1</b>	<b>800...001 Single Row Surface Mount Header</b>
	800-10-0__-30-001000 Specify # of pins → 03-64
<b>Fig. 2</b>	<b>802...001 Double Row Surface Mount Header</b>
	802-10-0__-30-001000 Specify # of pins → 04-72



**Fig. 3**

*For Electrical, Mechanical & Environmental Data, See pg. 4*

*For RoHS compliance select ◇ plating code.*

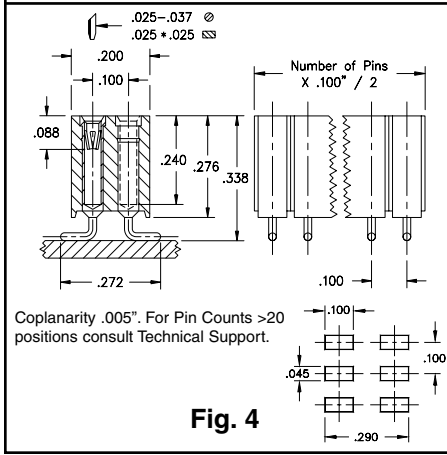
PLATING CODE =	10◇			
Pin Plating	10μ" Au			

<b>Fig. 3</b>	<b>801...001 Single Row Surface Mount Socket</b>
	801-43-0__-30-001000 Specify # of pins → 03-50
<b>Fig. 4</b>	<b>803...001 Double Row Surface Mount Socket</b>
	803-XX-__-30-001000 Specify # of pins → 004-100

*For Electrical, Mechanical & Environmental Data, See pg. 4*

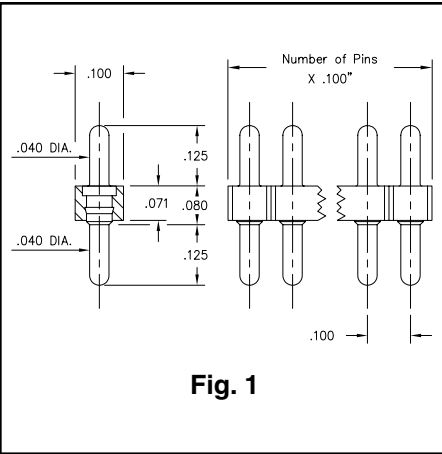
**XX=Plating Code See Below**

*For RoHS compliance select ◇ plating code.*



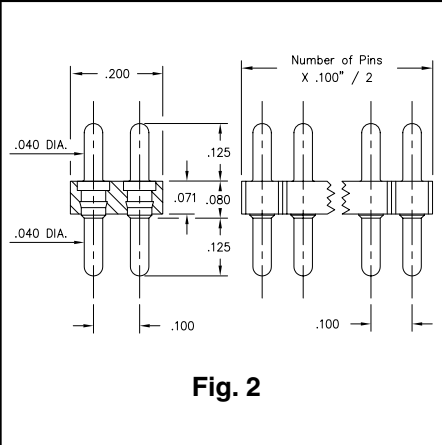
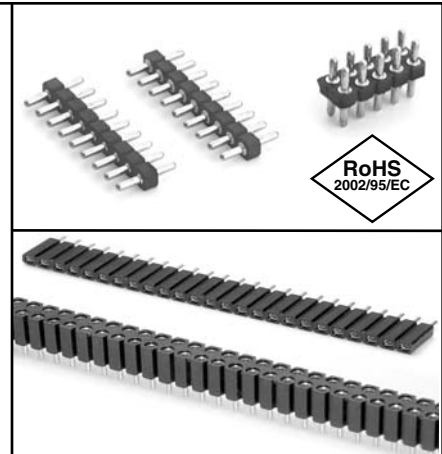
**Fig. 4**

SPECIFY PLATING CODE XX=		93		43◇
Sleeve (Pin)		200μ" Sn/Pb		200μ" Sn
Contact (Clip)		30μ" Au		30μ" Au



**Fig. 1**

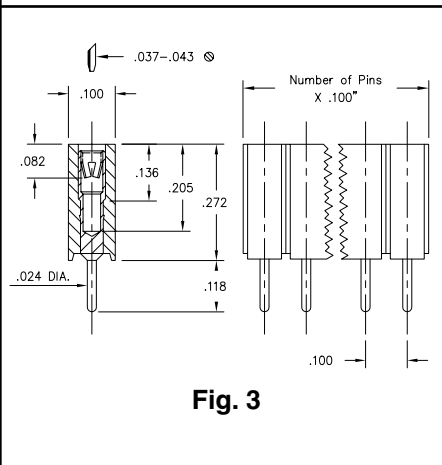
- Series 800 and 802 single & double row interconnects feature sturdy .040" Dia. leads (MM #3077) and low profile (.071" thick) insulator. See page 182 for details.
- Series 801 and 803 single and double row sockets use MM #1313 receptacles. See page 151 for details.
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #18 contacts rated at 8 amps. Receptacles accept .037"-.043" diameter pins. See page 222 for details.
- Insulators are high temp. thermoplastic.



**Fig. 2**

**Ordering Information**

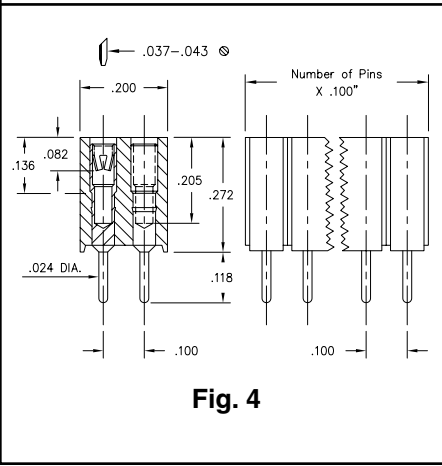
<b>Fig. 1</b>	<b>Series 800...10-004</b>	<b>Single Row Pin Header</b>
	800-XX-0__-10-004000	Specify # of pins → 01-50
<b>Fig. 2</b>	<b>Series 802...10-004</b>	<b>Double Row Pin Header</b>
	802-XX-__-10-004000	Specify # of pins → 04-100



**Fig. 3**

For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	



**Fig. 4**

For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=		93	99	43◇	
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn	
Contact (Clip)		30μ" Au	200μ" Sn/Pb	30μ" Au	





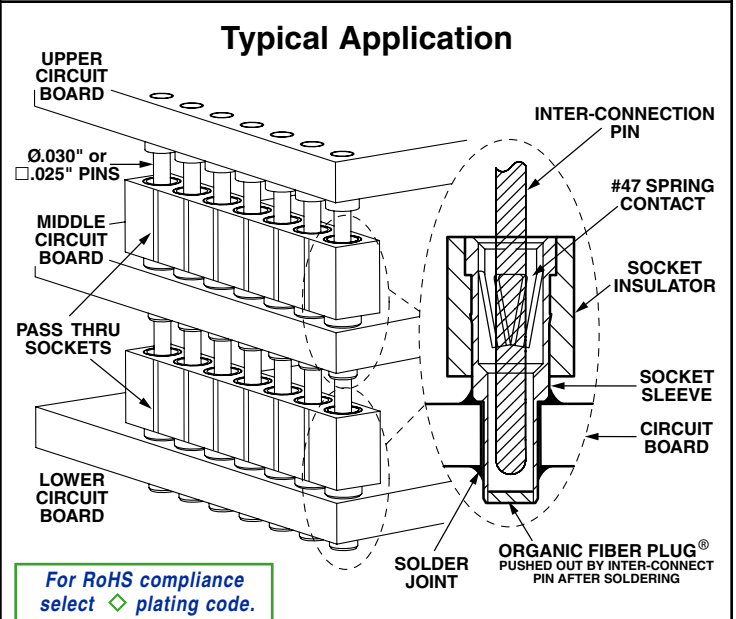
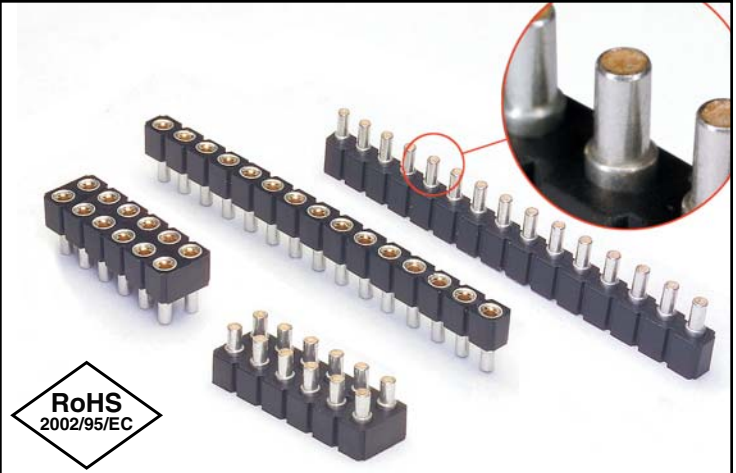
# INTERCONNECTS

Series 834, 835

.100" Grid **OFF<sup>®</sup>** Pass Through Sockets for  $\varnothing.030$ " &  $\square.025$ " pins  
Single and Double Row

- 834/835 Series Pass Through Sockets have a low .130" profile and will accept  $\varnothing.030$ " round pin, as well as industry standard .025" square pin headers.
- They are typically used to interconnect two or more parallel circuit boards.
- Sockets are designed for hand, wave or reflow\* soldering. The high temp. insulator is compatible with all solder processes.
- Unique **ORGANIC FIBRE PLUG<sup>®</sup>** barriers prevent solder, paste or flux from contaminating the internal spring contacts. After soldering, the **OFF<sup>®</sup>** barriers are pushed out of the socket when the mating header is inserted.
- Mill-Max sockets use a precision-machined brass sleeve with a press-fit beryllium copper "multi-finger" spring contact.
- Recommended mounting holes are  $\varnothing.046 \pm .003$ " PTH (1,2 mm drilled prior to plating).

\**Intrusive reflow (also called "pin-in-paste") is a technique of using conventional through-hole components in a reflow soldering process. The pass through socket is placed into plated through-holes in the circuit board (solder paste has previously been screen printed on pads adjacent to the holes) and the board is reflowed in the same pass as other SMT components. Solder will fill the plated through-holes and achieve solder joints as reliable as wave soldering. The OFF<sup>®</sup> barrier prevents solder paste from being picked-up inside the contact during assembly.*



**US Patent #7,086,870**

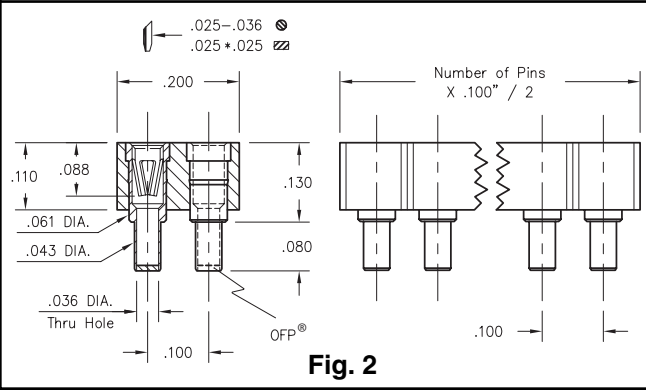
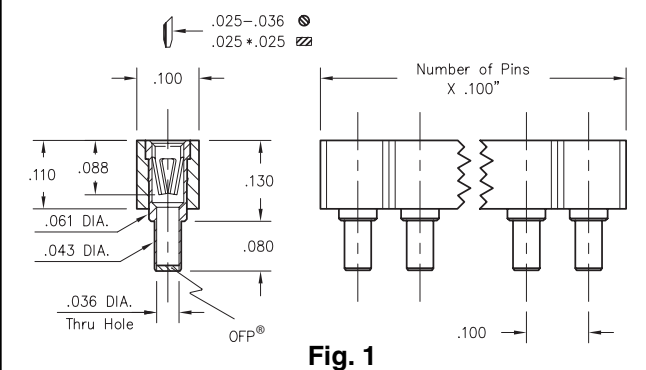
### Ordering Information

<b>Fig. 1</b>	Single Row <b>OFF<sup>®</sup></b> Pass Through Socket	834-XX-0 -10-001000
	Specify # of pins	01-64
<b>Fig. 2</b>	Double Row <b>OFF<sup>®</sup></b> Pass Through Socket	835-XX-0 -10-001000
	Specify # of pins	02-72

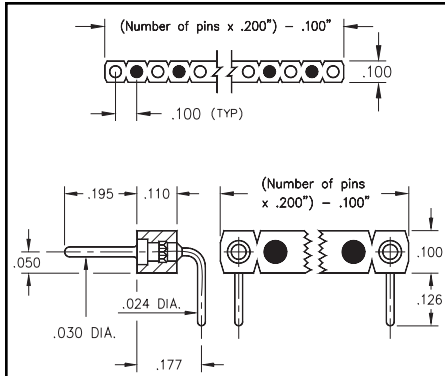
For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

SPECIFY PLATING CODE XX=	93	43 $\diamond$
Sleeve (Pin)	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn
Contact (Clip)	30 $\mu$ " Au	30 $\mu$ " Au

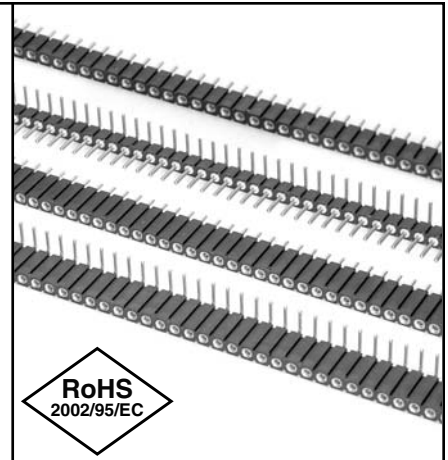


Downloaded from Arrow.com

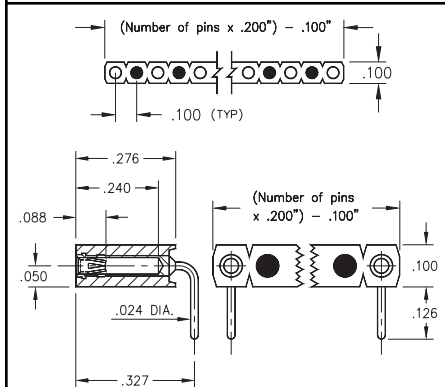


**Fig. 1**

- Series 800 selectively loaded headers use MM #5005 pins. See page 182 for details.
- Series 801 selectively loaded sockets use MM #1303, #1304 and #1305 pins. See pages 148, 149 & 150 for details.
- Series 801 selectively loaded sockets use Hi-Rel, 6-finger BeCu #47 contacts rated at 3 amps. See page 221 for details.
- Insulators are high temp. thermoplastic, suitable for all soldering operations.



### Ordering Information

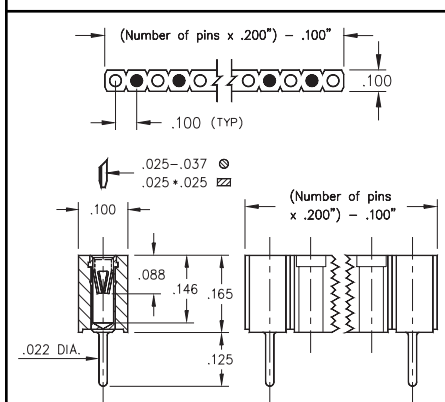


**Fig. 2**

<b>Fig. 1</b>	<b>Series 800...20-201</b>	<b>Right Angle Header</b>
	800-10-0_ _ -20-201000	
	Specify # of pins	└─> 02-32

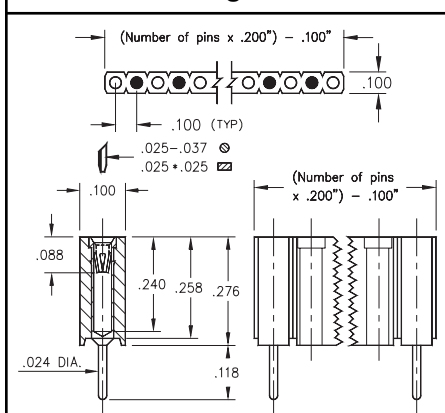
*For Electrical, Mechanical & Environmental Data, See pg. 4*

For RoHS compliance select  $\diamond$  plating code.



**Fig. 3**

PLATING CODE =	10 $\diamond$			
Pin Plating	10 $\mu$ " Au			
<b>Fig. 2</b>	<b>Series 801...20-201</b>	<b>Right Angle Socket</b>		
	801-43-0_ _ -20-201000			
	Specify # of pins	└─> 02-25		



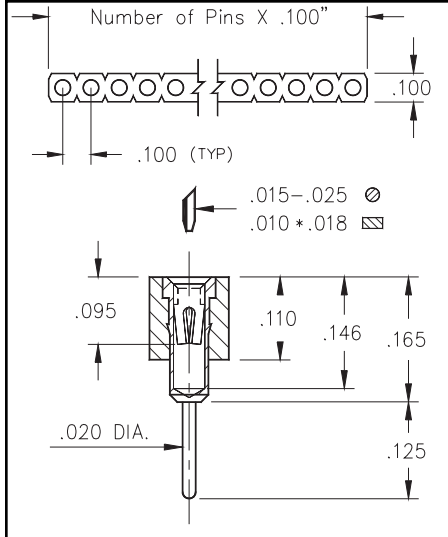
**Fig. 4**

<b>Fig. 3</b>	<b>Series 801...20-212</b>	<b>Straight Socket</b>
	801-43-0_ _ -10-212000	
	Specify # of pins	└─> 02-18
<b>Fig. 4</b>	<b>Series 801...10-201</b>	<b>Straight Socket</b>
	801-43-0_ _ -10-201000	
	Specify # of pins	└─> 02-25

*For Electrical, Mechanical & Environmental Data, See pg. 4*

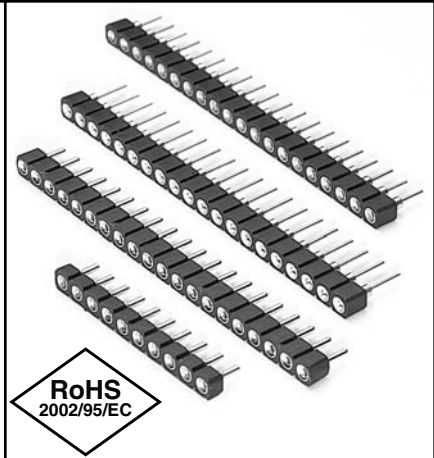
For RoHS compliance select  $\diamond$  plating code.

PLATING CODE =					43 $\diamond$
Sleeve (Pin)					200 $\mu$ " Sn
Contact (Clip)					30 $\mu$ " Au

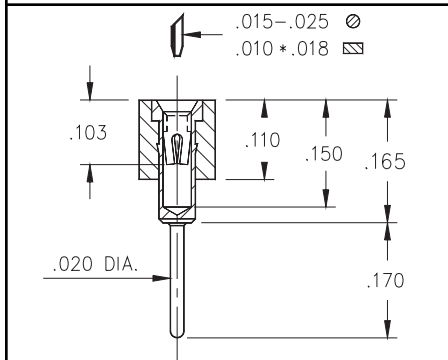


**Fig. 1**

- SIP sockets accept .015 - .025" diameter pins and standard IC leads.
- Various solder tails available: standard length, long for multi-layer boards, very low and ultra low profile. See Mill-Max #1001, 0134, 0501 or 1534 pins (See pages 132, 133, 136) for details.
- Hi-Rel, 4-finger BeCu #12 & #30 contacts are rated at 3 amps. See pages 218 for details.
- Insulators are high temp. thermoplastic.



**Ordering Information**



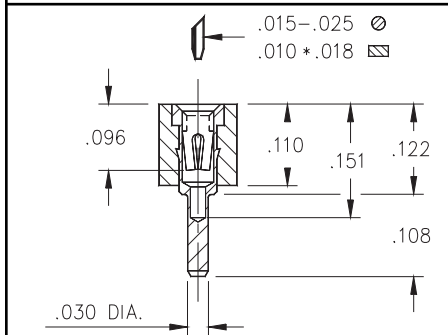
**Fig. 2**

**Fig. 1**

**Series 310...001 Standard Solder Tail**

310-XX-1\_\_-41-001000

Specify # of pins → 01-64



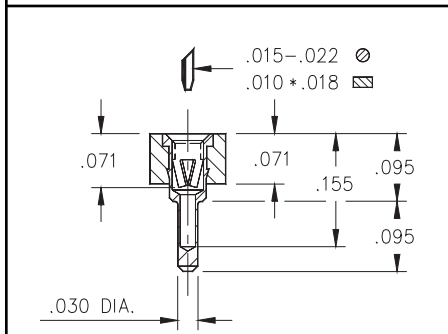
**Fig. 3**

**Fig. 2**

**Series 311...001 Long Solder Tail**

★ 41 & 91 Platings Non-Standard 311-XX-1\_\_-41-001000

Specify # of pins → 01-64



**Fig. 4**

**Fig. 3**

**Series 315...001 Very Low Profile**

★ 41 & 91 Platings Non-Standard 315-XX-1\_\_-41-001000

Specify # of pins → 01-64

**Series 315...003 Ultra Low Profile**

★ 41 & 91 Platings Non-Standard 315-XX-1\_\_-41-003000

Specify # of pins → 01-64

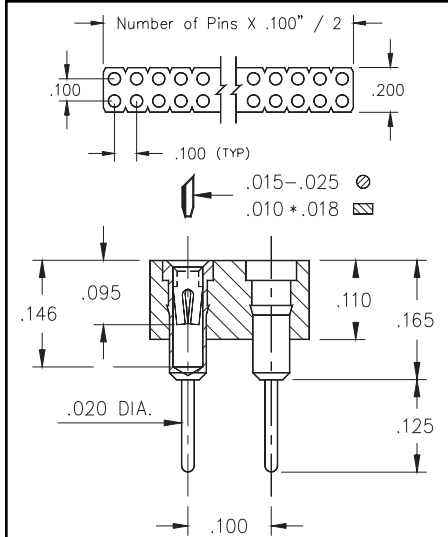
For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

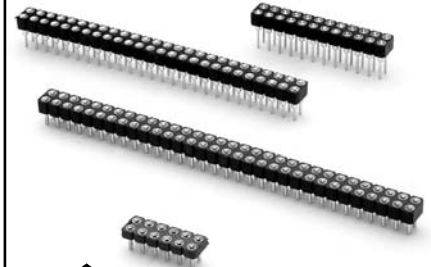
SPECIFY PLATING CODE XX=	13◇	91	93	99	41◇	43◇	44◇
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn	200μ" Sn	200μ" Sn
Contact (Clip)	30μ" Au	10μ" Au	30μ" Au	200μ" Sn/Pb	10μ" Au	30μ" Au	200μ" Sn

Downloaded from Arrow.com

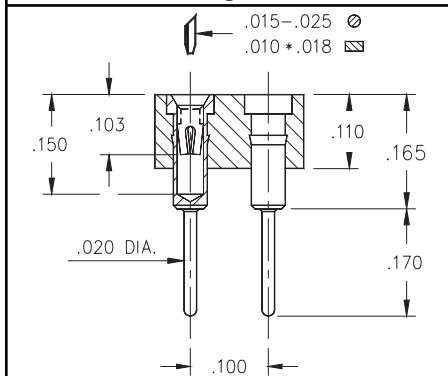


**Fig. 1**

- Series 41X double row strip sockets are on .100" grid.
- Various solder tails available: standard length, long for multi-layer boards, very low and ultra low profile. Using Mill-Max #1001, 0134, 0501 or 1534 pins (See pages 132, 133, 136) for details.
- Hi-Rel, 4-finger BeCu #12 & #30 contacts are rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



**Ordering Information**

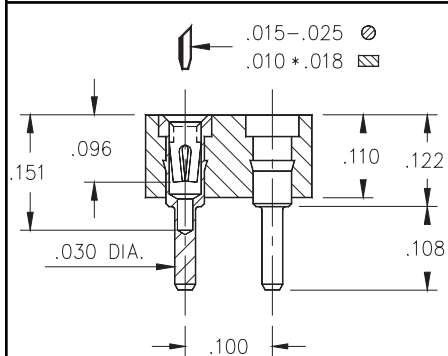


**Fig. 2**

**Fig. 1**

**Series 410...001 Standard Solder Tail**

410-XX-2\_\_-41-001000  
 Specify # of pins → 02-64

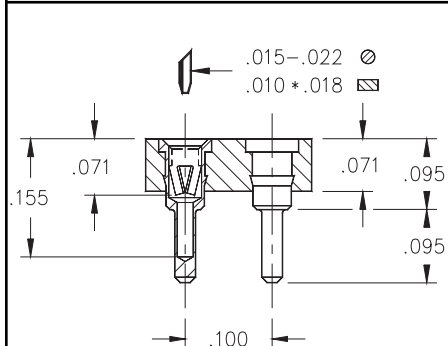


**Fig. 3**

**Fig. 3**

**Series 411...001 Long Solder Tail**

411-13-2\_\_-41-001000  
 Specify # of pins → 02-64



**Fig. 4**

**Fig. 4**

**Series 415...001 Very Low Profile**

415-XX-2\_\_-41-001000  
 Specify # of pins → 02-64

**Series 415...003 Ultra Low Profile**

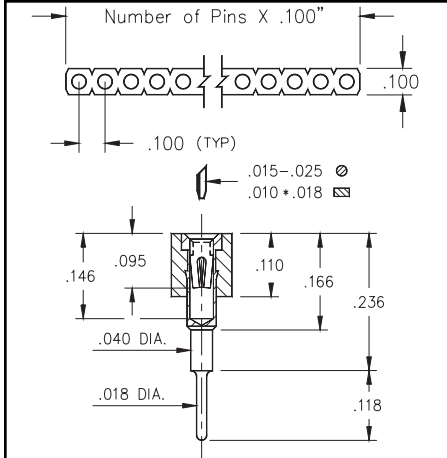
415-XX-2\_\_-41-003000  
 Specify # of pins → 02-72

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

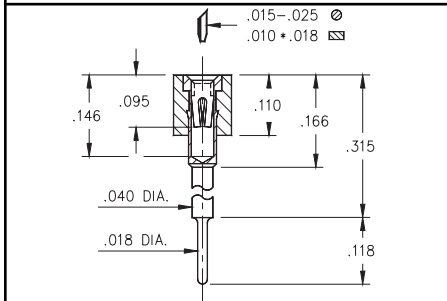
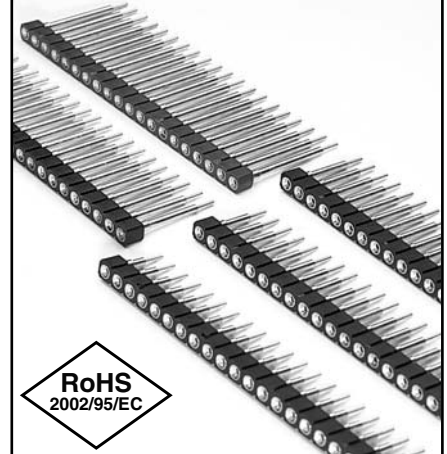
For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	13◇	93		43◇
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb		200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au		30μ" Au

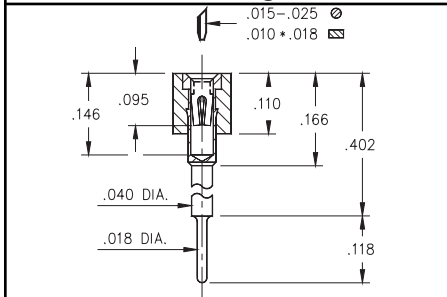


**Fig. 1**

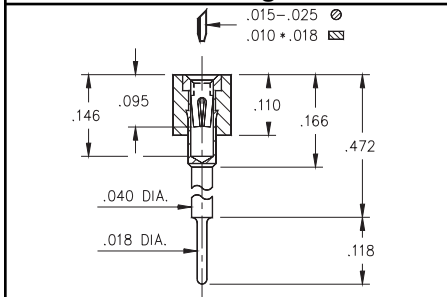
- Elevated socket strips are available in 5 different heights:  
 316...006 uses pin # 0153-1  
 316...003 uses pin # 0153-2  
 316...007 uses pin # 0153-3  
 316...008 uses pin # 0153-4  
 316...001 uses pin # 0153-5  
 See page 138 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



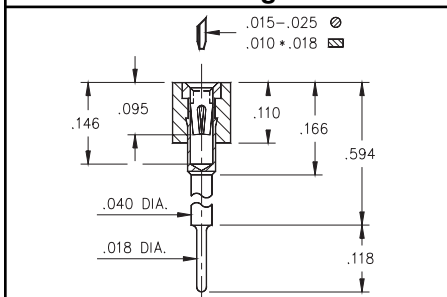
**Fig. 2**



**Fig. 3**



**Fig. 4**



**Fig. 5**

**Ordering Information**

<b>Fig. 1</b>	<b>Series 316...006</b>	<b>Standoff Height = .236</b>
	316-XX-1__-41-006000	Specify # of pins → 01-64
<b>Fig. 2</b>	<b>Series 316...003</b>	<b>Standoff Height = .315</b>
	316-XX-1__-41-003000	Specify # of pins → 01-64
<b>Fig. 3</b>	<b>Series 316...007</b>	<b>Standoff Height = .402</b>
	316-XX-1__-41-007000	Specify # of pins → 01-64
<b>Fig. 4</b>	<b>Series 316...008</b>	<b>Standoff Height = .472</b>
	316-XX-1__-41-008000	Specify # of pins → 01-64
<b>Fig. 5</b>	<b>Series 316...001</b>	<b>Standoff Height = .594</b>
	316-XX-1__-41-001000	Specify # of pins → 01-64

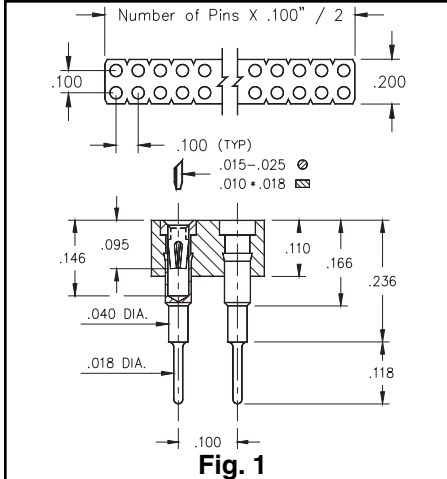
*For Electrical, Mechanical & Environmental Data, See pg. 4*

**XX=Plating Code See Below**

*For RoHS compliance select  $\diamond$  plating code.*

SPECIFY PLATING CODE XX=		<b>93</b>		<b>43</b> $\diamond$
Sleeve (Pin)		200 $\mu$ " Sn/Pb		200 $\mu$ " Sn
Contact (Clip)		30 $\mu$ " Au		30 $\mu$ " Au

Downloaded from [Arrow.com](http://Arrow.com)

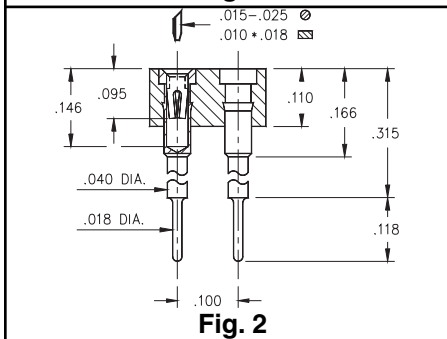


**Fig. 1**

- Elevated socket strips are available in 5 different standoff heights:  
 416...006 uses pin # 0153-1  
 416...003 uses pin # 0153-2  
 416...007 uses pin # 0153-3  
 416...008 uses pin # 0153-4  
 416...001 uses pin # 0153-5  
 See page 138 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.

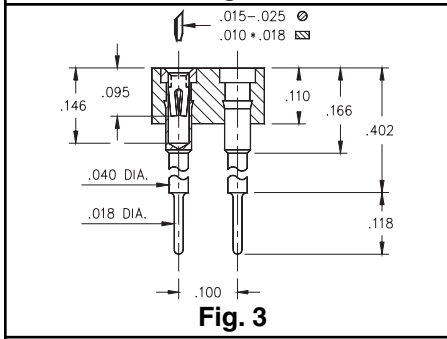


**Ordering Information**



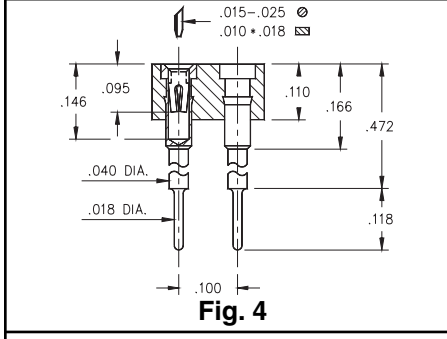
**Fig. 2**

<b>Fig. 1</b>	<b>Series 416...006 Standoff Height = .236"</b>
	416-XX-2__-41-006000 Specify # of pins → 02-64



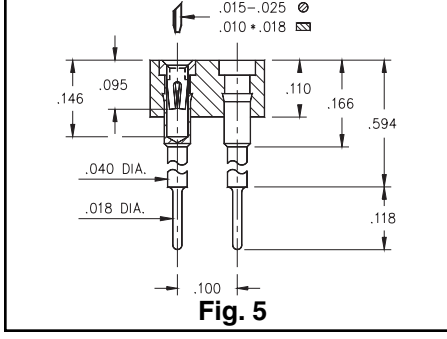
**Fig. 3**

<b>Fig. 2</b>	<b>Series 416...003 Standoff Height = .315"</b>
	416-XX-2__-41-003000 Specify # of pins → 02-64



**Fig. 4**

<b>Fig. 3</b>	<b>Series 416...007 Standoff Height = .402"</b>
	416-XX-2__-41-007000 Specify # of pins → 02-64



**Fig. 5**

<b>Fig. 4</b>	<b>Series 416...008 Standoff Height = .472"</b>
	416-XX-2__-41-008000 Specify # of pins → 02-64

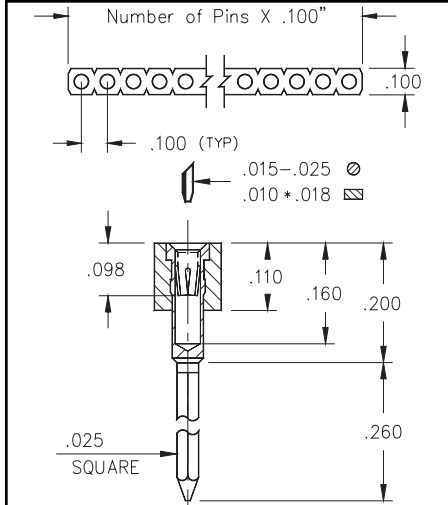
<b>Fig. 5</b>	<b>Series 416...001 Standoff Height = .594"</b>
	416-XX-2__-41-001000 Specify # of pins → 02-64

*For Electrical, Mechanical & Environmental Data, See pg. 4*

*XX=Plating Code See Below*

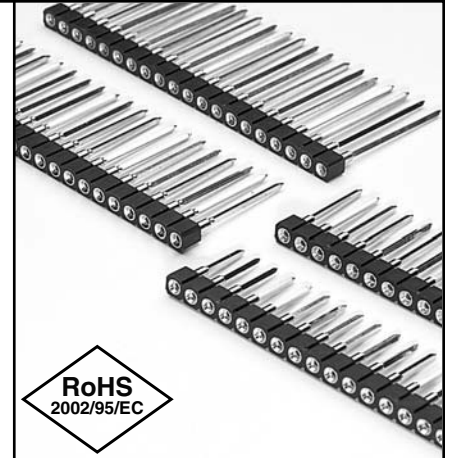
*For RoHS compliance select  $\diamond$  plating code.*

SPECIFY PLATING CODE XX=		<b>93</b>			<b>43</b> $\diamond$
Sleeve (Pin)		200 $\mu$ " Sn/Pb			200 $\mu$ " Sn
Contact (Clip)		30 $\mu$ " Au			30 $\mu$ " Au

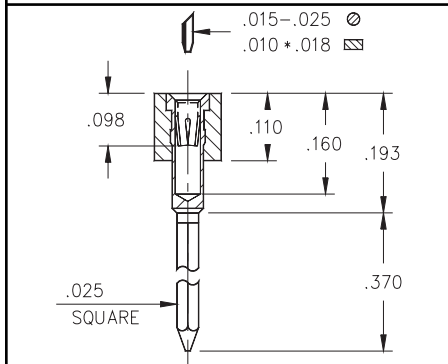


**Fig. 1**

- Wraposts available in 1 - 4 levels using MM pin numbers:
- 1-Level uses pin # 0040-1
- 2-Level uses pin # 0089-2
- 3-Level uses pin # 0088-3
- 4-Level uses pin # 0086-4
- See page 166 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



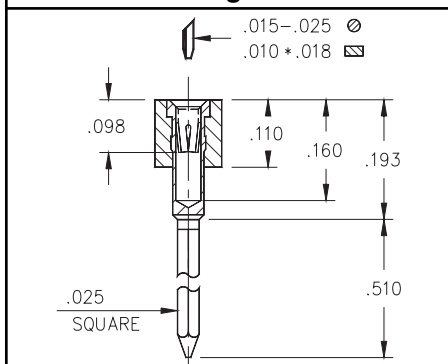
**Ordering Information**



**Fig. 2**

**Fig. 1**

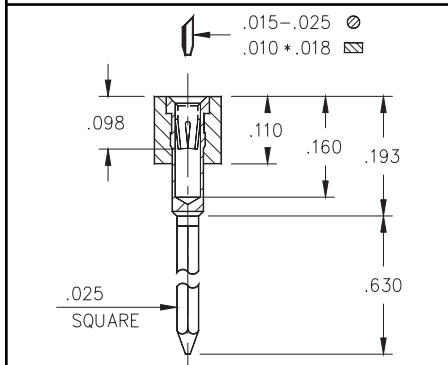
<b>Series 321...001</b>	<b>1 Level Wrapost</b>
321-13-1__-41-001000	
<b>Specify # of pins</b>	01-64



**Fig. 3**

**Fig. 2**

<b>Series 322...001</b>	<b>2 Level Wrapost</b>
322-XX-1__-41-001000	
<b>Specify # of pins</b>	01-64



**Fig. 4**

**Fig. 3**

<b>Series 323...001</b>	<b>3 Level Wrapost</b>
323-XX-1__-41-001000	
<b>Specify # of pins</b>	01-64

**Fig. 4**

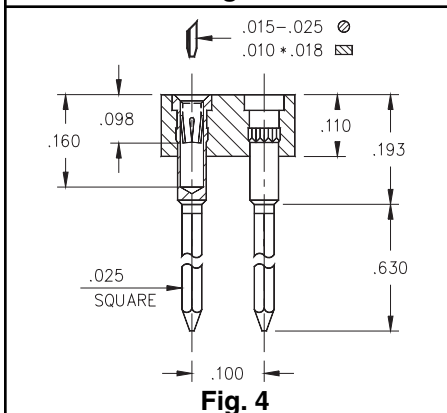
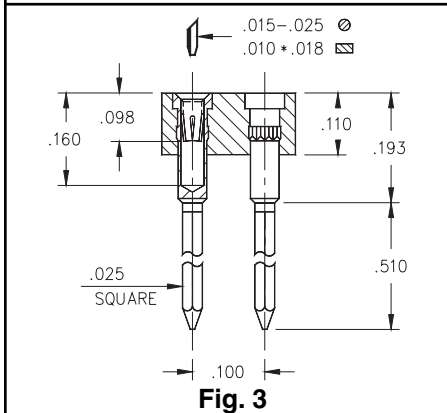
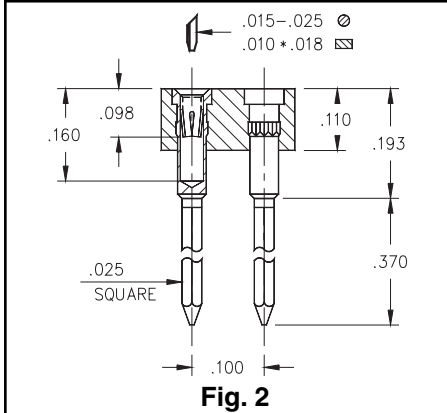
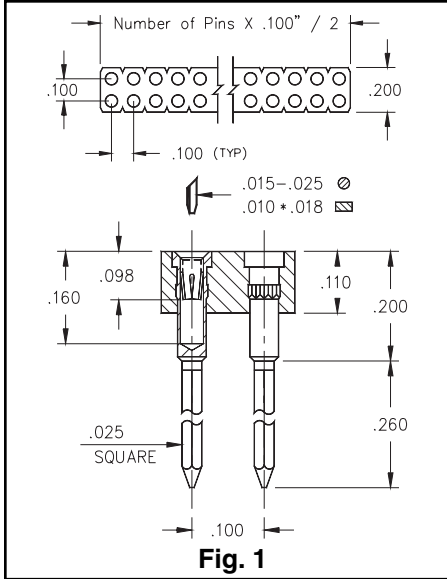
<b>Series 324...002</b>	<b>4 Level Wrapost</b>
324-XX-1__-41-002000	
<b>Specify # of pins</b>	01-64

*For Electrical, Mechanical & Environmental Data, See pg. 4*

**XX=Plating Code See Below**

*For RoHS compliance select  $\diamond$  plating code.*

SPECIFY PLATING CODE XX=	13 $\diamond$	93	43 $\diamond$
Sleeve (Pin)	10 $\mu$ " Au	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn
Contact (Clip)	30 $\mu$ " Au	30 $\mu$ " Au	30 $\mu$ " Au



- Wrapost double row strip sockets are available with 1 - 4 level wraposts:
  - 1-Level uses pin # 0040-1
  - 2-Level uses pin # 0089-2
  - 3-Level uses pin # 0088-3
  - 4-Level uses pin # 0086-4
  - See page 166 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



**Ordering Information**

<b>Fig. 1</b>	<b>Series 421...001</b> <b>1 Level Wrapost</b>
	421-XX-2__-41-001000 Specify # of pins      ↳      02-64
<b>Fig. 2</b>	<b>Series 422...001</b> <b>2 Level Wrapost</b>
	422-XX-2__-41-001000 Specify # of pins      ↳      02-64
<b>Fig. 3</b>	<b>Series 423...001</b> <b>3 Level Wrapost</b>
	423-XX-2__-41-001000 Specify # of pins      ↳      02-64
<b>Fig. 4</b>	<b>Series 424...002</b> <b>4 Level Wrapost</b>
	424-XX-2__-41-002000 Specify # of pins      ↳      02-64

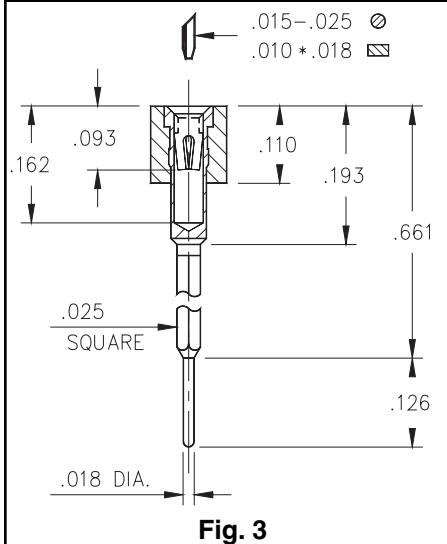
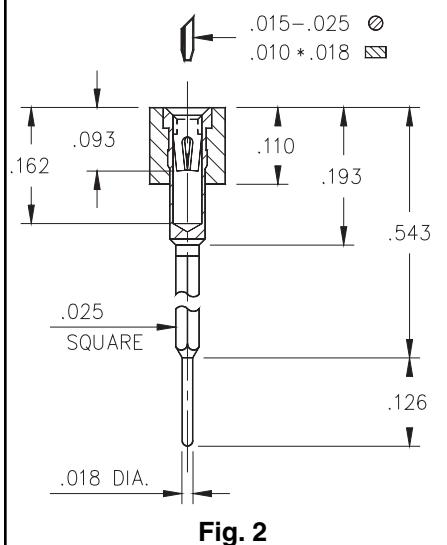
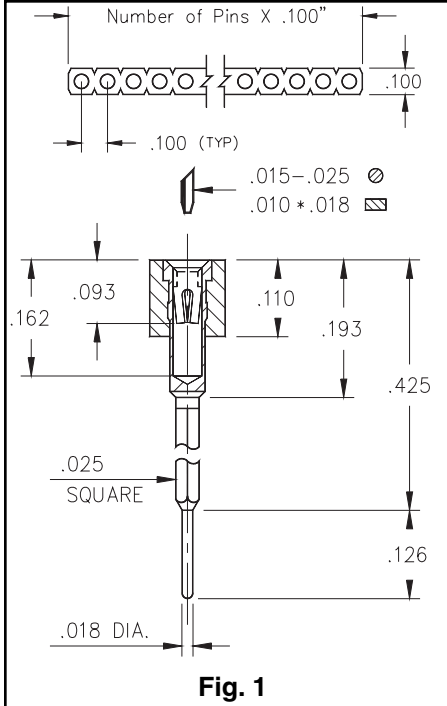
*For Electrical, Mechanical & Environmental Data, See pg. 4*

*XX=Plating Code See Below*

*For RoHS compliance select ◊ plating code.*

SPECIFY PLATING CODE XX=	13 ◊	93		43 ◊
Sleeve (Pin)	10µ" Au	200µ" Sn/Pb		200µ" Sn
Contact (Clip)	30µ" Au	30µ" Au		30µ" Au





- Wrappost / Solder tail combinations are available in 3 lengths using MM pin numbers:  
 326...001 uses pin # 2601  
 326...002 uses pin # 2602  
 326...003 uses pin # 2603  
 See page 167 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



**Ordering Information**

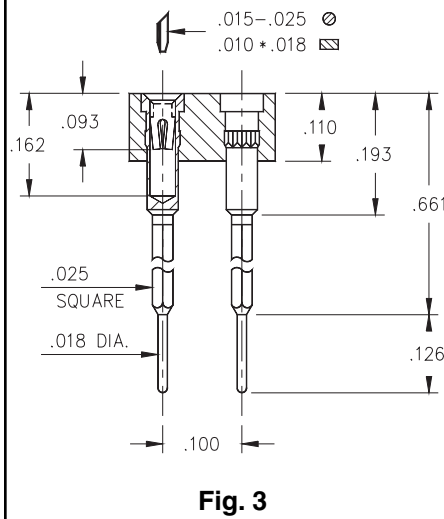
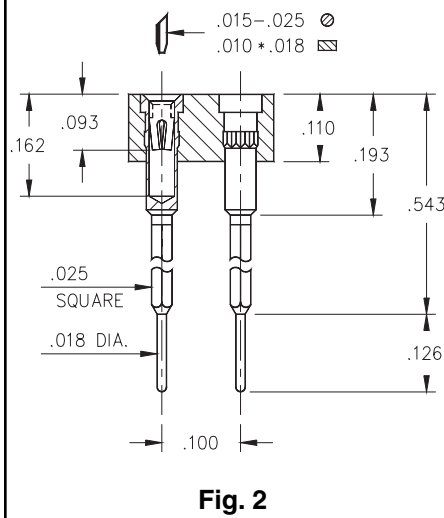
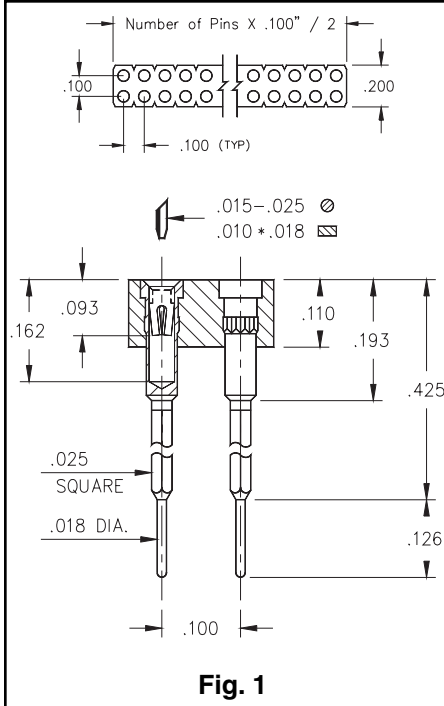
<b>Fig. 1</b>	<b>Series 326...001</b>
	326-XX-1__-41-001000 Specify # of pins → 01-64
<b>Fig. 2</b>	<b>Series 326...002</b>
	326-XX-1__-41-002000 Specify # of pins → 01-64
<b>Fig. 3</b>	<b>Series 326...003</b>
	326-XX-1__-41-003000 Specify # of pins → 01-64

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select  $\diamond$  plating code.

SPECIFY PLATING CODE XX=		93		43 $\diamond$
Sleeve (Pin)		200 $\mu$ " Sn/Pb		200 $\mu$ " Sn
Contact (Clip)		30 $\mu$ " Au		30 $\mu$ " Au



- Wrapost / Solder tail combination for interconnect purposes are available in 3 lengths using pin numbers:  
 426...001 uses pin # 2601  
 426...002 uses pin # 2602  
 426...003 uses pin # 2603  
 See page 167 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



**Ordering Information**

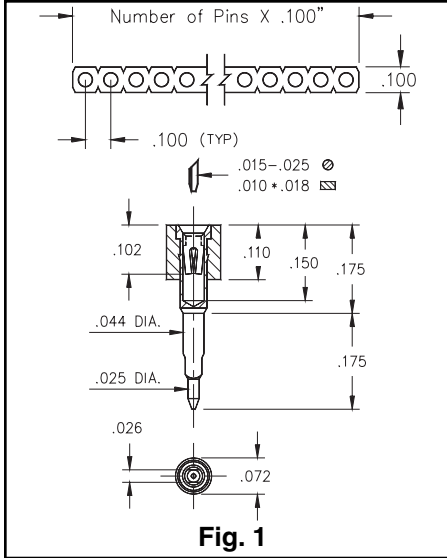
<b>Fig. 1</b>	<b>Series 426...001</b>	<b>1 Level Wrapost</b>
	426-XX-2__-41-001000	Specify # of pins → 02-64
<b>Fig. 2</b>	<b>Series 426...002</b>	<b>2 Level Wrapost</b>
	426-XX-2__-41-002000	Specify # of pins → 02-64
<b>Fig. 3</b>	<b>Series 426...003</b>	<b>3 Level Wrapost</b>
	426-XX-2__-41-003000	Specify # of pins → 02-64

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select  $\diamond$  plating code.

SPECIFY PLATING CODE XX=	13 $\diamond$	93	43 $\diamond$
Sleeve (Pin)	10 $\mu$ " Au	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn
Contact (Clip)	30 $\mu$ " Au	30 $\mu$ " Au	30 $\mu$ " Au



- Unique compliant tail pins conform to the plated through-hole without stressing the inner layers of a multilayer board.
- Recommended plated through-hole for 304 series: .036"-.041" use a 1.1mm drill prior to plating. Using MM #0477 & #0478 pins, see page 133 for details.
- For 346 series: .040"±.003" finished plated through-hole. Using MM #4612 & #4613 pins, see page 133 for details. Patent No. 4,799,904.
- Hi-Rel, 4 finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



**Ordering Information**

**Series 304...770 SOLDERLESS PRESS-FIT**

<b>Fig. 1</b>	(For .062" Thick Boards)
	304-13-1__-41-770000 Specify # of pins → 01-64

**Series 304...780 SOLDERLESS PRESS-FIT**

<b>Fig. 2</b>	(For .125" Thick Boards)
	304-13-1__-41-780000 Specify # of pins → 01-64

Mill-Max recommends plating Code 13 for Series 304...770 and 304...780

**Series 346...012 COMPLIANT SOLDERLESS PRESS-FIT**

<b>Fig. 3</b>	(For .060-.100" Thick Boards)
	346-XX-1__-41-012000 Specify # of pins → 01-64

**Series 346...013 COMPLIANT SOLDERLESS PRESS-FIT**

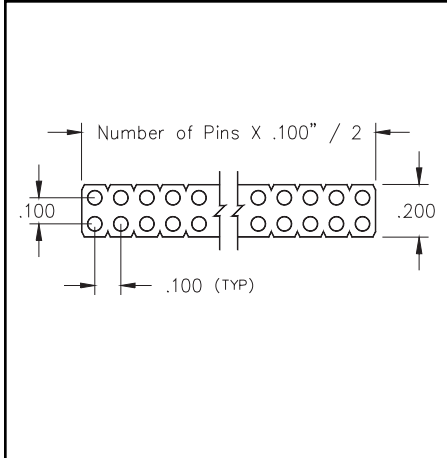
<b>Fig. 4</b>	(For .090-.130" Thick Boards)
	346-XX-1__-41-013000 Specify # of pins → 01-64

For Electrical, Mechanical & Environmental Data, See pg. 4

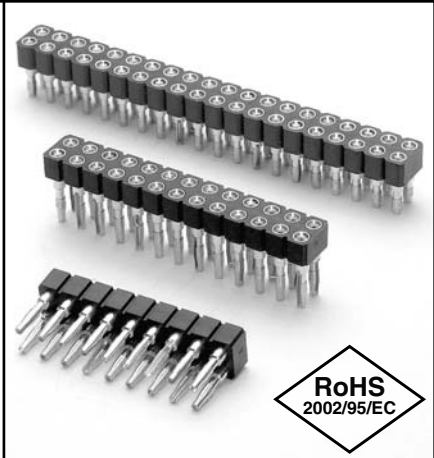
XX=Plating Code See Below

For RoHS compliance select plating code.

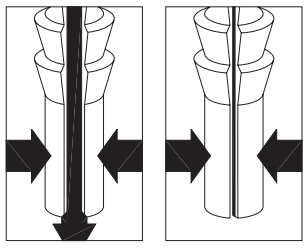
SPECIFY PLATING CODE XX=	13	93	99	43	44
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn	200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au	200μ" Sn/Pb	30μ" Au	200μ" Sn



- Compliant tail solderless press-fit: MM #4612 or #4613 pins. Use series 446...012 for .060"- .120" thick boards, and series 446...013 for .090"- .130" thick boards. See Page 133 for details.
- Compliant tail receptacles can be inserted and removed without any degradation of the plated through-hole.
- Hi-Rel, 4 finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.

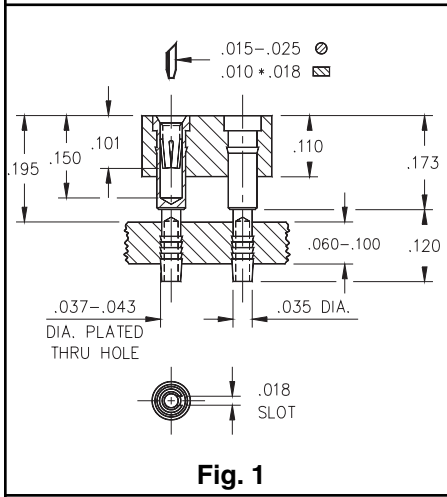


**APPLICATION OF COMPLIANT TAIL PINS**



Mill-Max's patented\* compliant tail features precision-machined pins that are hollow and slotted to conform to a .040" ± .003" diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration at left). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.

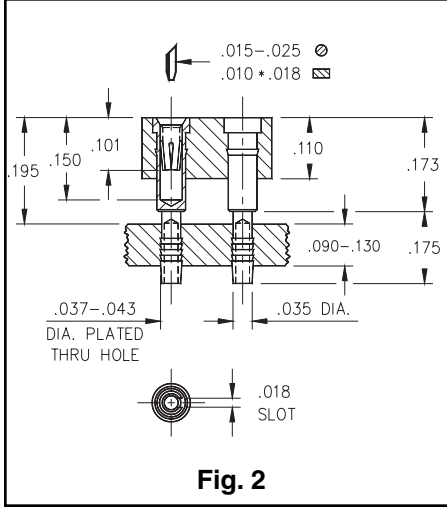
\*Patent No. 4,799,904.



**Fig. 1**

**Ordering Information**

<b>Fig. 1</b>	<b>Series 446...012</b>	
	446-XX-2__-41-012000	
	<b>Specify # of pins</b>	02-64
<b>Fig. 2</b>	<b>Series 446...013</b>	
	446-XX-2__-41-013000	
	<b>Specify # of pins</b>	02-64



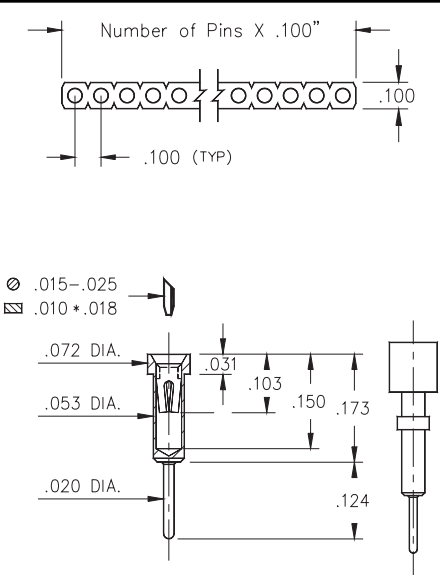
**Fig. 2**

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

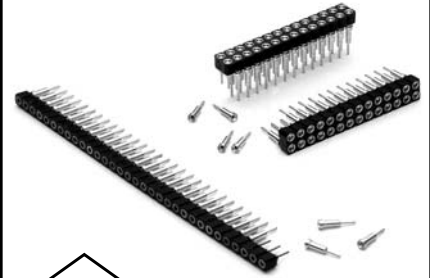
For RoHS compliance select plating code.

SPECIFY PLATING CODE XX=	13	93	99		43	44
Sleeve (Pin)	10µ" Au	200µ" Sn/Pb	200µ" Sn/Pb		200µ" Sn	200µ" Sn
Contact (Clip)	30µ" Au	30µ" Au	200µ" Sn/Pb		30µ" Au	200µ" Sn



**Fig. 1**

- Standard solder tail receptacles can be mounted as a low profile receptacle or by the solder tail for use in smaller diameter holes.
- Series 712 uses MM #0255 pins. See page 136 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



**Ordering Information**

**Single Row (.028 or .055 min. mounting holes)**

**Fig. 1**

712-XX-1\_\_-41-001000

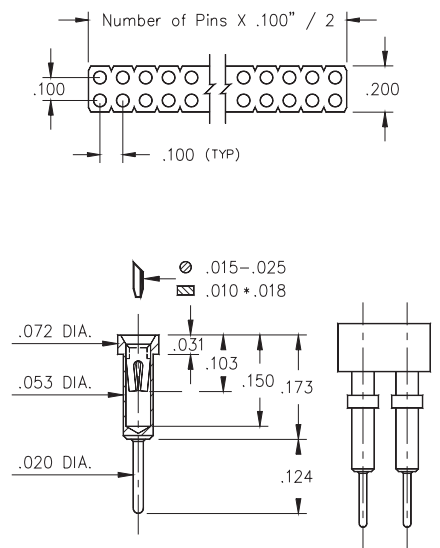
Specify # of pins → 01-64

**Double Row (.028 or .055 min. mounting holes)**

**Fig. 2**

712-XX-2\_\_-41-001000

Specify # of pins → 02-64



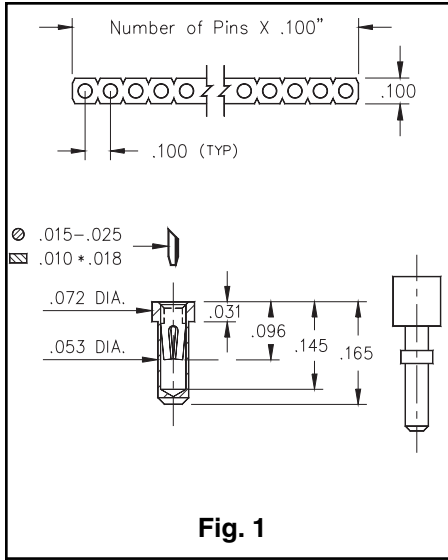
**Fig. 2**

*For Electrical, Mechanical & Environmental Data, See pg. 4*

*XX=Plating Code See Below*

*For RoHS compliance select ◇ plating code.*

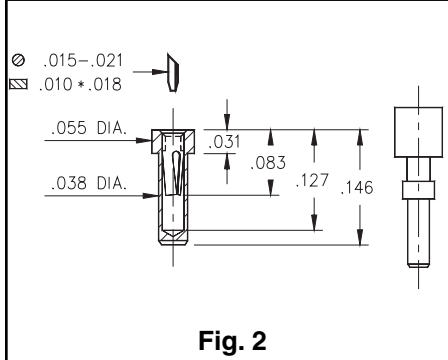
SPECIFY PLATING CODE XX=	13◇	93	43◇
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au	30μ" Au



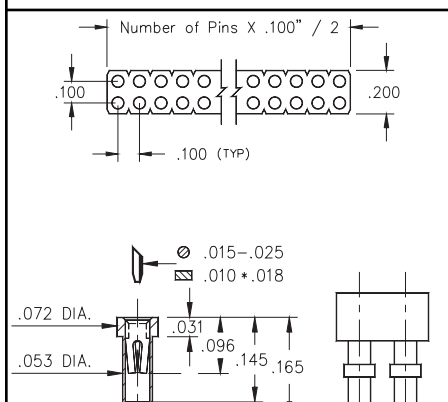
- Low profile receptacles sit .031" above the board.
- Series 714 uses MM #1401 & MM #1407 pin receptacles. See pages 128 and 141 for details.
- Hi-Rel, 4-finger BeCu #30 contact is used in the #1401 receptacle and a BeCu #11 contact is used in the #1407. Both contacts are rated at 3 amps. See pages 217 & 218 for details.
- Insulators are high temp. thermoplastic.



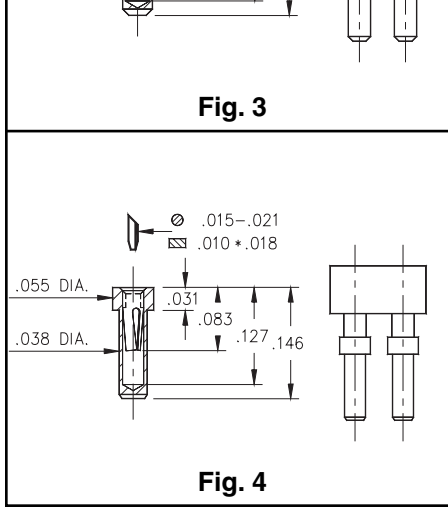
**Ordering Information**



<b>Fig. 1</b>	<b>Single Row (.055 min. mounting hole)</b>
	714-XX-1__-41-001000 Specify # of pins → 01-64



<b>Fig. 2</b>	<b>Single Row (.039 min. mounting hole)</b>
	714-XX-1__-31-007000 Specify # of pins → 01-64



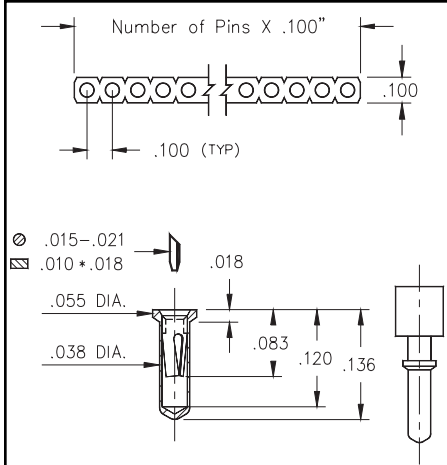
<b>Fig. 3</b>	<b>Double Row (.055 min. mounting hole)</b>
	714-XX-2__-41-001000 Specify # of pins → 02-64
<b>Fig. 4</b>	<b>Double Row (.039 min. mounting hole)</b>
	714-XX-2__-31-007000 Specify # of pins → 02-64

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

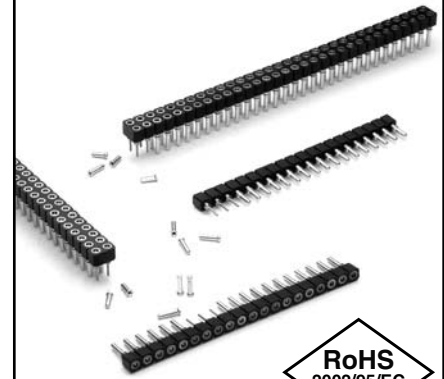
For RoHS compliance select plating code.

SPECIFY PLATING CODE XX=			<b>93</b>			<b>43</b>
Sleeve (Pin)			200µ" Sn/Pb			200µ" Sn
Contact (Clip)			30µ" Au			30µ" Au

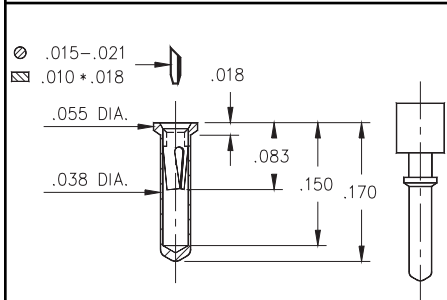


**Fig. 1**

- Ultra low profile receptacles sit .018" above the board.
- Series 714 uses MM #0552-1 and MM #0552-2 pin receptacles. See page 129 for details.
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 217 for details.
- Insulators are high temp. thermoplastic.



**Ordering Information**



**Fig. 2**

**Fig. 1**

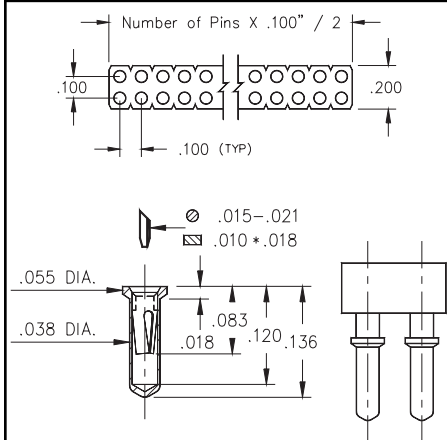
**Single Row (.039 min. mounting hole)**

714-XX-1\_\_-31-012000  
 Specify # of pins → 01-64

**Fig. 2**

**Single Row (.039 min. mounting hole)**

714-XX-1\_\_-31-018000  
 Specify # of pins → 01-64



**Fig. 3**

**Fig. 3**

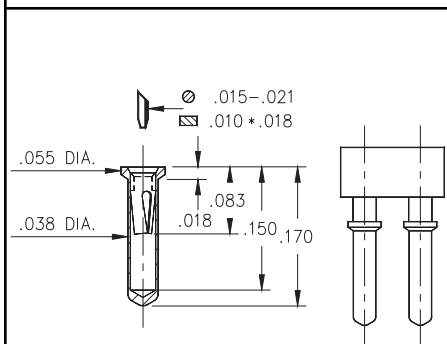
**Double Row (.039 min. mounting hole)**

714-XX-2\_\_-31-012000  
 Specify # of pins → 02-64

**Fig. 4**

**Double Row (.039 min. mounting hole)**

714-XX-2\_\_-31-018000  
 Specify # of pins → 02-64



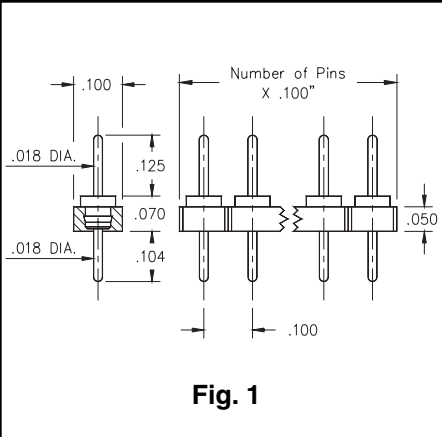
**Fig. 4**

*For Electrical, Mechanical & Environmental Data, See pg. 4*

**XX=Plating Code See Below**

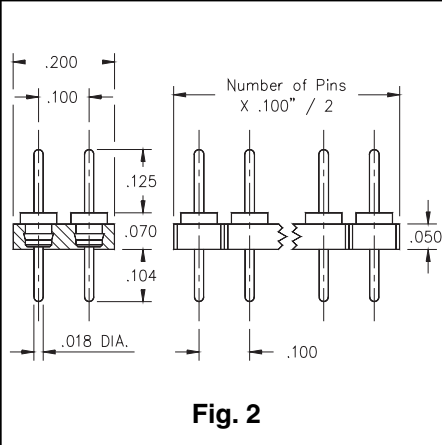
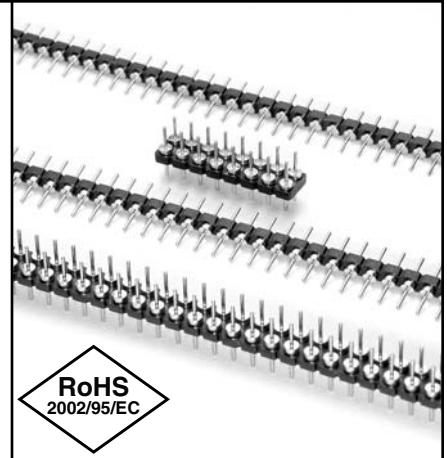
*For RoHS compliance select  $\diamond$  plating code.*

SPECIFY PLATING CODE XX=			<b>93</b>			<b>43</b> $\diamond$
Sleeve (Pin)			200 $\mu$ " Sn/Pb			200 $\mu$ " Sn
Contact (Clip)			30 $\mu$ " Au			30 $\mu$ " Au

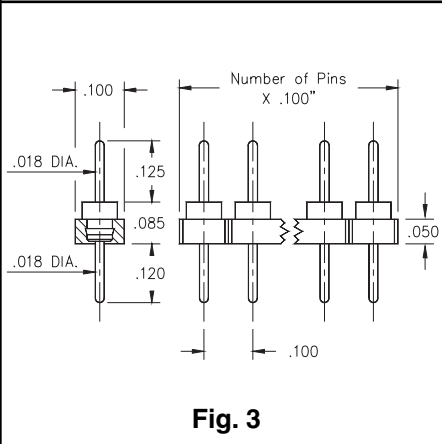


**Fig. 1**

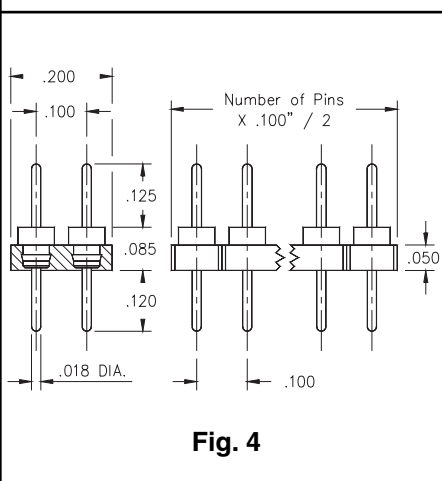
- Series 335 and 435 single and double row PCB interconnects offer the lowest profile available .070".
- Series 364 and 464 single and double row PCB interconnects offer .085" profile above board.
- Series 335 and 435 use MM #3516 pins. See page 179 for details.
- Series 364 and 464 use MM #6458 pins. See page 180 for details.
- Insulators are high temp. thermoplastic.



**Fig. 2**



**Fig. 3**



**Fig. 4**

### Ordering Information

<b>Fig. 1</b>	<b>Single Row</b>	<b>.070" Profile Pin Header</b>
	335-XX-1__-00-160000	Specify # of pins → 01-32
<b>Fig. 2</b>	<b>Double Row</b>	<b>.070" Profile Pin Header</b>
	435-XX-2__-00-160000	Specify # of pins → 02-72
<b>Fig. 3</b>	<b>Single Row</b>	<b>.085" Profile Pin Header</b>
	364-10-1__-00-580000	Specify # of pins → 01-32
<b>Fig. 4</b>	<b>Double Row</b>	<b>.085" Profile Pin Header</b>
	464-10-2__-00-580000	Specify # of pins → 02-72

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	



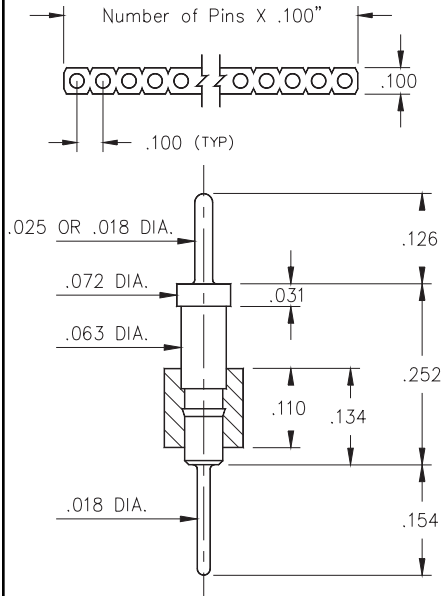


Fig. 1

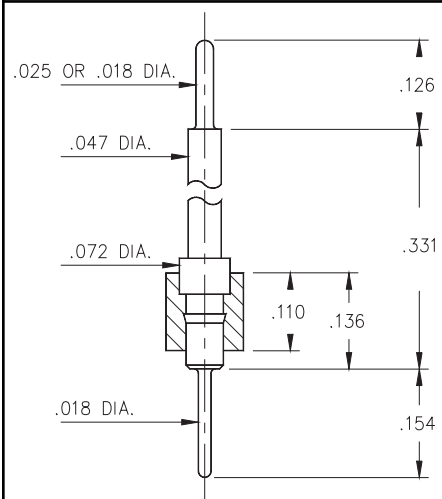


Fig. 2

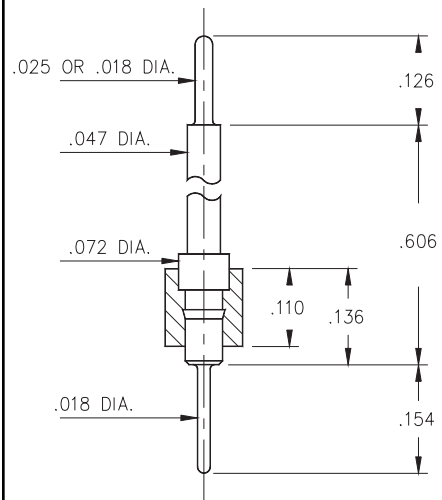


Fig. 3

- Series 351 Interconnect header strips come in three lengths with .018" dia. pluggable solder tails at one end and .025" dia. pins at the other, see series:  
351...003 uses pin #5503  
351...004 uses pin #5504  
351...005 uses pin #5505
- .018" pluggable solder tails are available at both ends, please see series:  
351...009 uses pin #5509  
351...010 uses pin #5510  
351...011 uses pin #5511  
See pages 179 & 181 for details.
- Insulators are high temp. thermoplastic.



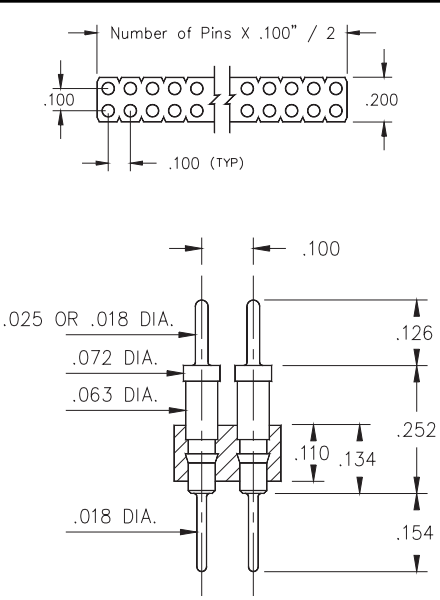
### Ordering Information

Fig. 1	<b>Series 351...003</b> .018 / .025 Solder Tails
	351-10-1__-00-003000 Specify # of pins → 01-64
Fig. 2	<b>Series 351...009</b> .018 / .018 Solder Tails
	351-10-1__-00-009000 Specify # of pins → 01-64
Fig. 3	<b>Series 351...004</b> .018 / .025 Solder Tails
	351-10-1__-00-004000 Specify # of pins → 01-64
Fig. 3	<b>Series 351...010</b> .018 / .018 Solder Tails
	351-10-1__-00-010000 Specify # of pins → 01-64
Fig. 3	<b>Series 351...005</b> .018 / .025 Solder Tails
	351-10-1__-00-005000 Specify # of pins → 01-64
Fig. 3	<b>Series 351...011</b> .018 / .018 Solder Tails
	351-10-1__-00-011000 Specify # of pins → 01-64

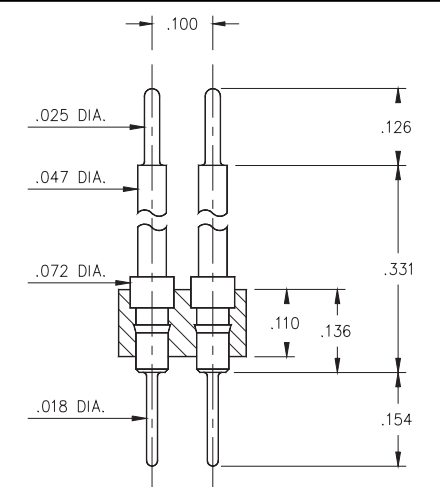
*For Electrical, Mechanical & Environmental Data, See pg. 4*

*For RoHS compliance select  $\diamond$  plating code.*

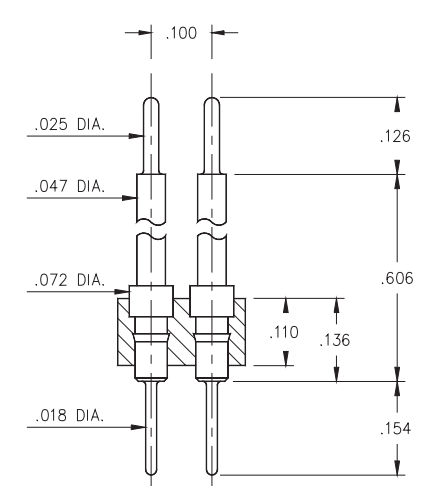
PLATING CODE =	10 $\diamond$		
Pin Plating	10 $\mu$ " Au		



**Fig. 1**

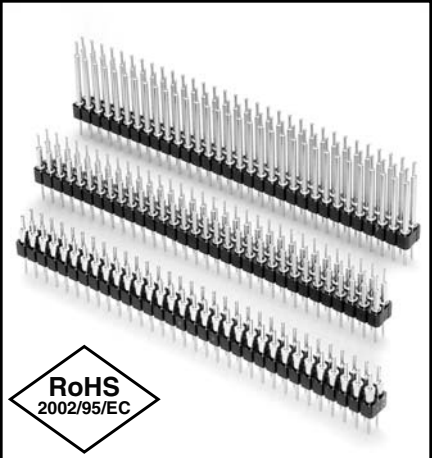


**Fig. 2**



**Fig. 3**

- Series 451 Interconnect header strips come in three lengths with .018" dia. pluggable solder tails at one end and .025" dia. pins at the other, see series:  
 451...003 uses pin #5503  
 451...004 uses pin #5504  
 451...005 uses pin #5505
- .018" pluggable solder tails are available at both ends, please see series:  
 451...009 uses pin #5509  
 451...010 uses pin #5510  
 451...011 uses pin #5511  
 See pages 179 & 181 for details.
- Insulators are high temp. thermoplastic.



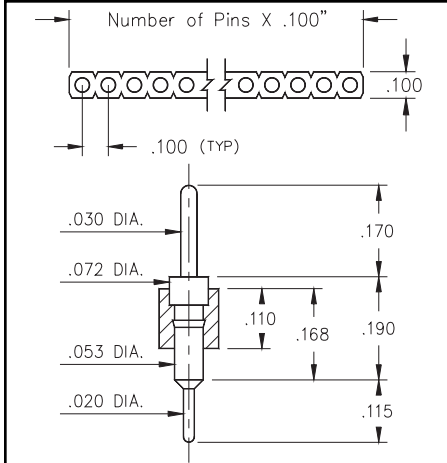
### Ordering Information

<b>Fig. 1</b>	<b>Series 451...003</b> <b>.018 / .025 Solder Tails</b>
	451-10-2_ _ -00-003000 Specify # of pins      ↳      02-64
<b>Fig. 2</b>	<b>Series 451...009</b> <b>.018 / .018 Solder Tails</b>
	451-10-2_ _ -00-009000 Specify # of pins      ↳      02-64
<b>Fig. 3</b>	<b>Series 451...004</b> <b>.018 / .025 Solder Tails</b>
	451-10-2_ _ -00-004000 Specify # of pins      ↳      02-64
<b>Fig. 3</b>	<b>Series 451...010</b> <b>.018 / .018 Solder Tails</b>
	451-10-2_ _ -00-010000 Specify # of pins      ↳      02-64
<b>Fig. 3</b>	<b>Series 451...005</b> <b>.018 / .025 Solder Tails</b>
	451-10-2_ _ -00-005000 Specify # of pins      ↳      02-64
<b>Fig. 3</b>	<b>Series 451...011</b> <b>.018 / .018 Solder Tails</b>
	451-10-2_ _ -00-011000 Specify # of pins      ↳      02-64

*For Electrical, Mechanical & Environmental Data, See pg. 4*

*For RoHS compliance select  $\diamond$  plating code.*

PLATING CODE =	<b>10</b> $\diamond$		
Pin Plating	10 $\mu$ " Au		

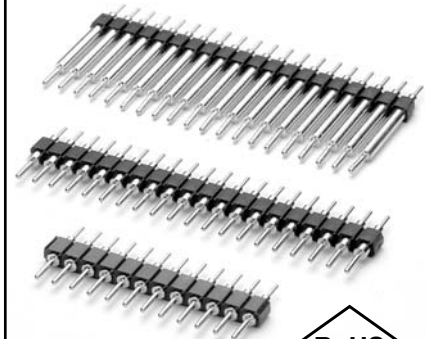


**Fig. 1**

- Series 334 Interconnect header strips are available in 5 lengths:

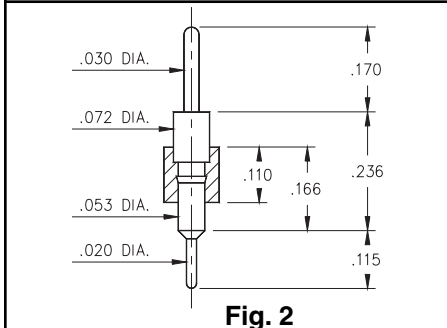
334...020 uses pin #3402 ( L = .190" )  
 334...010 uses pin #3401 ( L = .236" )  
 334...050 uses pin #3405 ( L = .315" )  
 334...000 uses pin #3400 ( L = .606" )  
 334...100 uses pin #3410 ( L = 1.070" )  
 See pages 182 for details.

- Strips come with .020" pluggable solder tails at one end and .030" tails at the other.
- Insulators are high temp. thermoplastic.

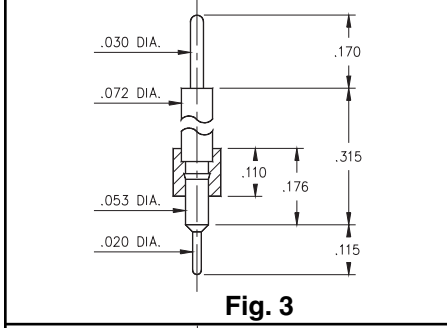


### Ordering Information

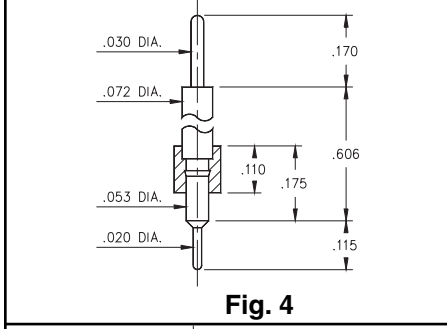
<b>Fig. 1</b>	<b>Series 334...020</b> .020 / .030 Solder Tails
	334-XX-1__-00-020000 Specify # of pins    →    01-64
<b>Fig. 2</b>	<b>Series 334...010</b> .020 / .030 Solder Tails
	334-XX-1__-00-010000 Specify # of pins    →    01-64
<b>Fig. 3</b>	<b>Series 334...050</b> .020 / .030 Solder Tails
	334-XX-1__-00-050000 Specify # of pins    →    01-64
<b>Fig. 4</b>	<b>Series 334...000</b> .020 / .030 Solder Tails
	334-XX-1__-00-000000 Specify # of pins    →    01-64
<b>Fig. 5</b>	<b>Series 334...100</b> .020 / .030 Solder Tails
	334-XX-1__-00-100000 Specify # of pins    →    01-64



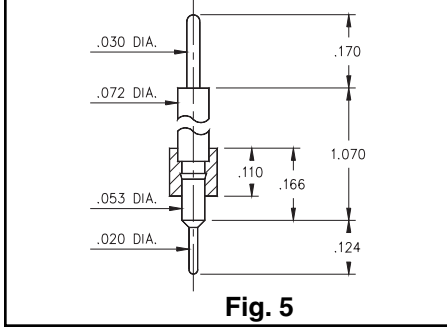
**Fig. 2**



**Fig. 3**



**Fig. 4**



**Fig. 5**

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

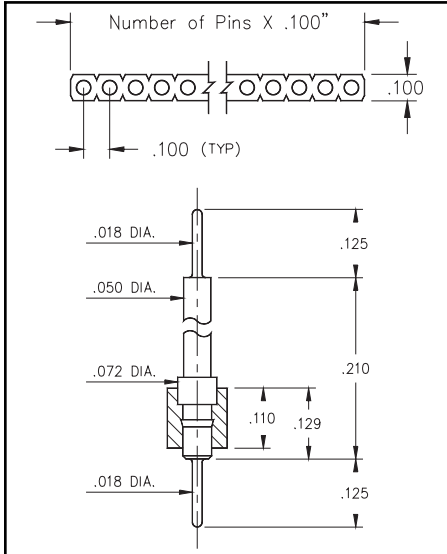


Fig. 1

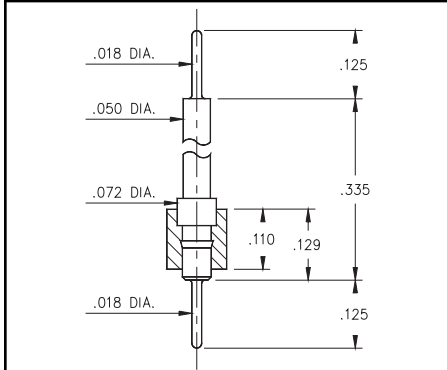


Fig. 2

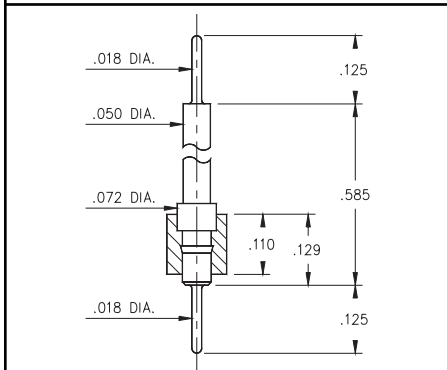


Fig. 3

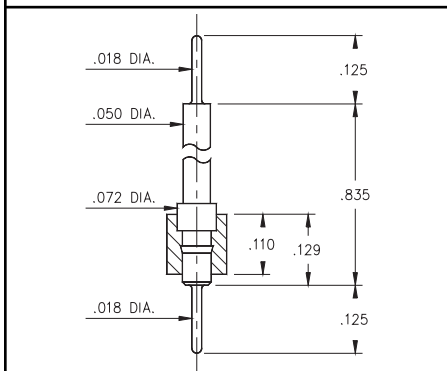


Fig. 4

- Series 342 Interconnect Header strips come in four heights with .018" dia. pluggable solder tails at both ends.

342...591 uses pin #4259-1 ( L = .210" )  
 342...592 uses pin #4259-2 ( L = .335" )  
 342...593 uses pin #4259-3 ( L = .585" )  
 342...594 uses pin #4259-4 ( L = .835" )  
 See pages 179 for details.

- Insulators are high temp. thermoplastic.



### Ordering Information

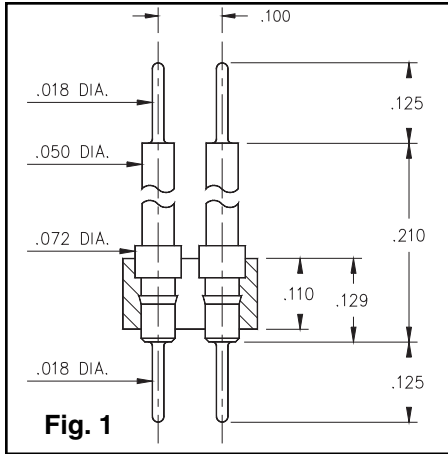
Fig. 1	<b>Series 342...591</b> .018 / .018 Solder Tails
	342-XX-1__-00-591000 Specify # of pins → 01-64
Fig. 2	<b>Series 342...592</b> .018 / .018 Solder Tails
	342-XX-1__-00-592000 Specify # of pins → 01-64
Fig. 3	<b>Series 342...593</b> .018 / .018 Solder Tails
	342-XX-1__-00-593000 Specify # of pins → 01-64
Fig. 4	<b>Series 342...594</b> .018 / .018 Solder Tails
	342-XX-1__-00-594000 Specify # of pins → 01-64

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

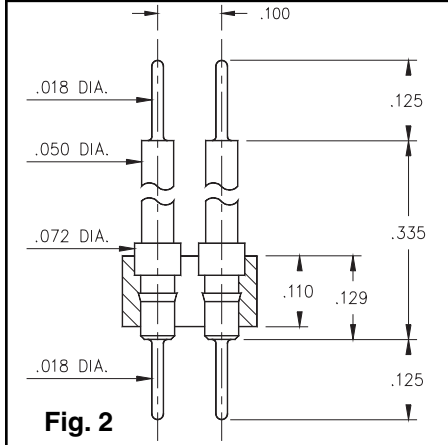
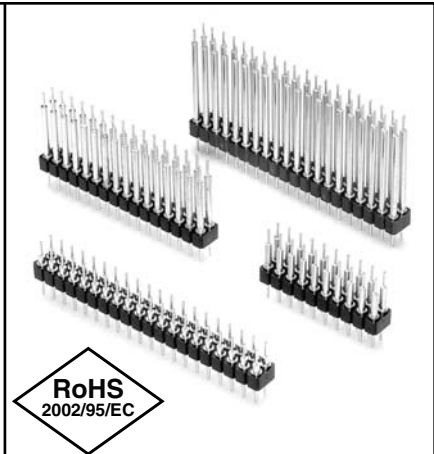
SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	



- Series 442 Interconnect Header strips come in four heights with .018" dia. pluggable solder tails at both ends.

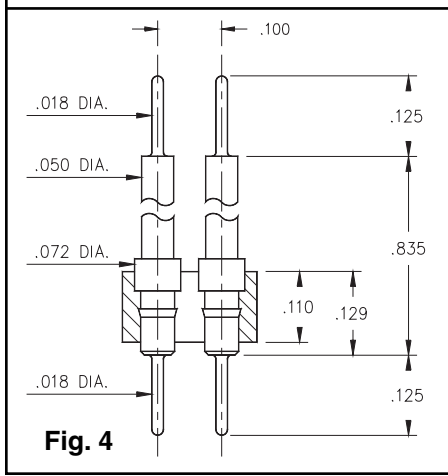
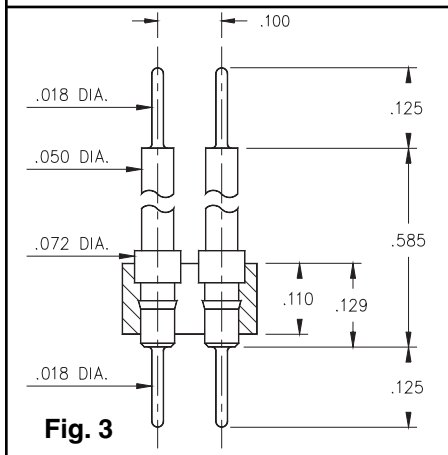
442...591 uses pin #4259-1 ( L = .210" )  
 442...592 uses pin #4259-2 ( L = .335" )  
 442...593 uses pin #4259-3 ( L = .585" )  
 442...594 uses pin #4259-4 ( L = .835" )  
 See pages 179 for details.

- Insulators are high temp. thermoplastic.



### Ordering Information

<b>Fig. 1</b>	<b>Series 442...591 .018 / .018 Interconnect</b>
	442-XX-2__-00-591000 Specify # of pins → 02-64
<b>Fig. 2</b>	<b>Series 442...592 .018 / .018 Interconnect</b>
	442-XX-2__-00-592000 Specify # of pins → 02-64
<b>Fig. 3</b>	<b>Series 442...593 .018 / .018 Interconnect</b>
	442-XX-2__-00-593000 Specify # of pins → 02-64
<b>Fig. 4</b>	<b>Series 442...594 .018 / .018 Interconnect</b>
	442-XX-2__-00-594000 Specify # of pins → 02-64

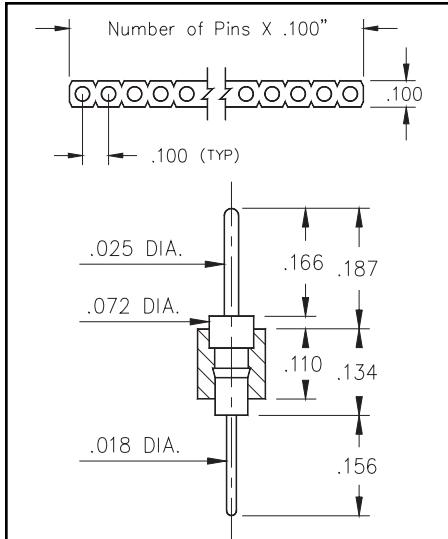


For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select  $\diamond$  plating code.

SPECIFY PLATING CODE XX=	10 $\diamond$	90	40 $\diamond$	
Pin Plating	10 $\mu$ " Au	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn	



**Fig. 1**

- Series 350, 360, 370 & 380 single row Header strips come with various styles (pin, slotted head, turret and solder cup) with pluggable solder tails.

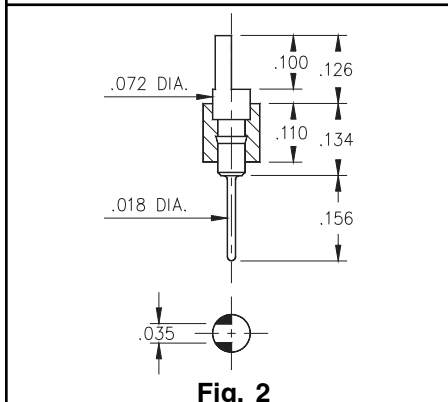
350...001 uses pin #0290  
360...001 uses pin #0282  
370...001 uses pin #0700  
380...001 uses pin #8000  
See pages 182 & 183 for details.

- Insulators are high temp. thermoplastic.

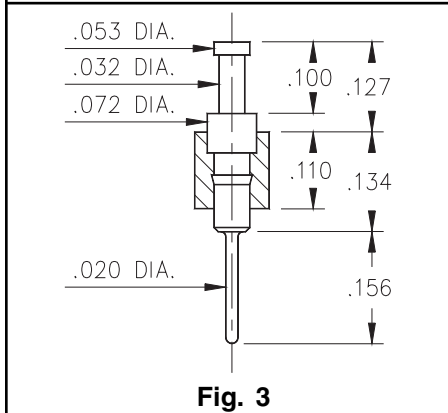


### Ordering Information

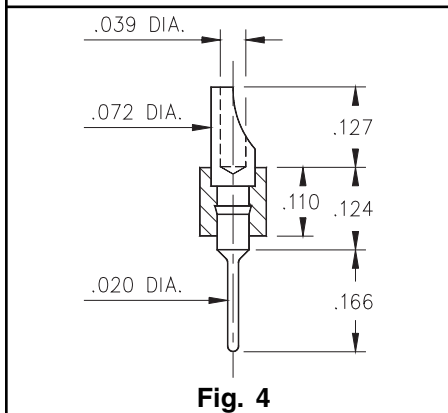
<b>Fig. 1</b>	<b>Series 350...001 .025 Pin / .018 Solder Tail</b>
	350-XX-1__-00-001000 Specify # of pins → 01-64
<b>Fig. 2</b>	<b>Series 360...001 Slotted Head / Solder Tail</b>
	360-XX-1__-00-001000 Specify # of pins → 01-64
<b>Fig. 3</b>	<b>Series 370...001 Turret / Solder Tail</b>
	370-XX-1__-00-001000 Specify # of pins → 01-64
<b>Fig. 4</b>	<b>Series 380...001 Solder Cup / Solder Tail</b>
	380-XX-1__-00-001000 Specify # of pins → 01-64



**Fig. 2**



**Fig. 3**



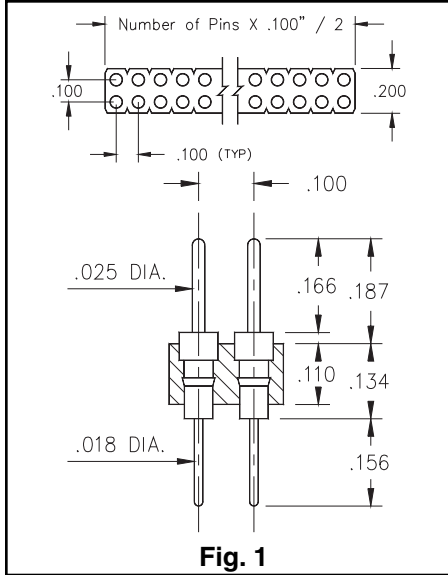
**Fig. 4**

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

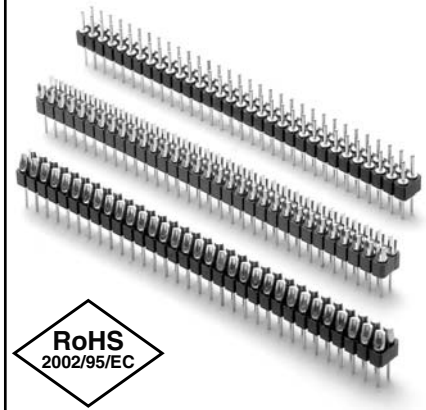
SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	



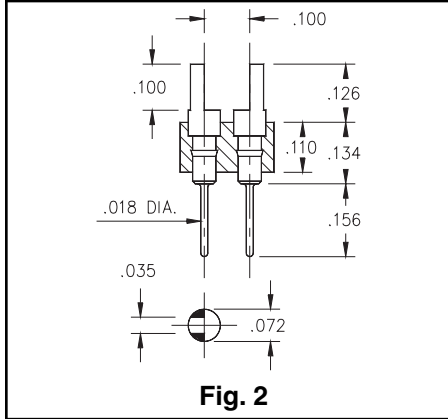
- Series 450, 460, 470 & 480 double row Header strips come with various styles (pin, slotted head, turret and solder cup) with pluggable solder tails.

450...001 uses pin #0290  
460...001 uses pin #0282  
470...001 uses pin #0700  
480...001 uses pin #8000  
See pages 182 & 183 for details.

- Insulators are high temp. thermoplastic.



### Ordering Information



**Fig. 1**

**Series 450...001 Pin / Solder Tail**

450-XX-2\_\_-00-001000

Specify # of pins → 02-64

**Fig. 2**

**Series 460...001 Slotted Head / Solder Tail**

460-10-2\_\_-00-001000

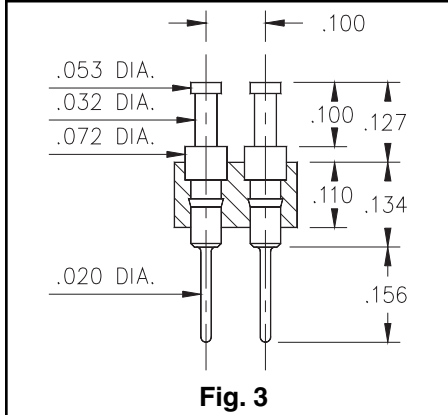
Specify # of pins → 02-64

**Fig. 3**

**Series 470...001 Turret / Solder Tail**

470-XX-2\_\_-00-001000

Specify # of pins → 02-64

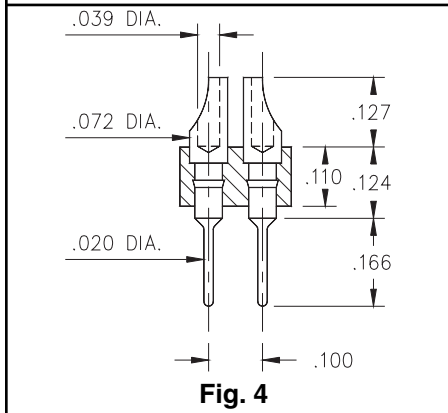


**Fig. 4**

**Series 480...001 Solder Cup / Solder Tail**

480-10-2\_\_-00-001000

Specify # of pins → 02-64



For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

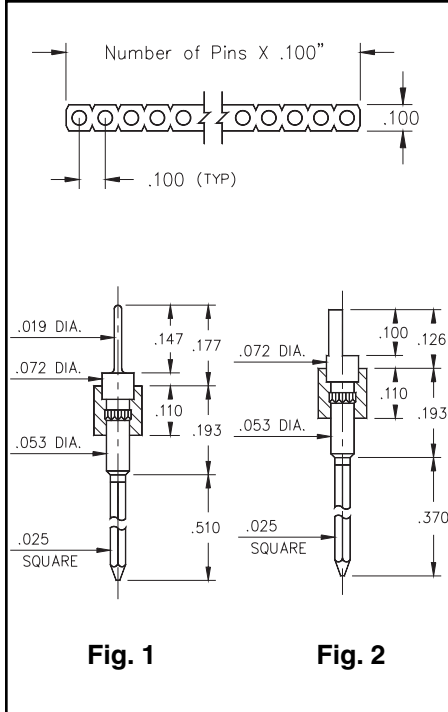


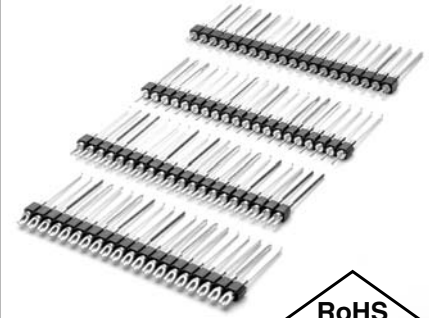
Fig. 1

Fig. 2

- Series 353, 362, 363, 373, 382 & 383 single row Header strips come with various styles (pin, slotted head, turret and solder cup) with wrapost tails.

353...001 uses pin #5301  
 362...001 uses pin #1106-2  
 363...001 uses pin #1106-3  
 373...001 uses pin #0730-3  
 382...001 uses pin #8301-2  
 383...001 uses pin #8301-3  
 See pages 194 & 195 for details.

- Insulators are high temp. thermoplastic.



### Ordering Information

<b>Fig. 1</b>	<b>Series 353...001 Pin / 3 Level Wrapost</b>
	353-XX-1__-00-001000 Specify # of pins → 01-64
<b>Fig. 2</b>	<b>Series 362...001 Slotted Head / 2 Level Wrapost</b>
	362-XX-1__-00-001000 Specify # of pins → 01-64
<b>Fig. 3</b>	<b>Series 363...001 Slotted Head / 3 Level Wrapost</b>
	363-XX-1__-00-001000 Specify # of pins → 01-64
<b>Fig. 4</b>	<b>Series 373..001 Turret / 3 Level Wrapost</b>
	373-XX-1__-00-001000 Specify # of pins → 01-64
<b>Fig. 5</b>	<b>Series 382...001 Solder Cup / 2 Level Wrapost</b>
	382-XX-1__-00-001000 Specify # of pins → 01-64
<b>Fig. 6</b>	<b>Series 383...001 Solder Cup / 3 Level Wrapost</b>
	383-XX-1__-00-001000 Specify # of pins → 01-64

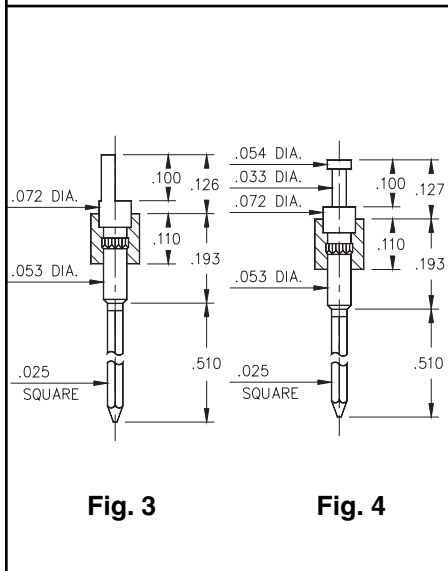


Fig. 3

Fig. 4

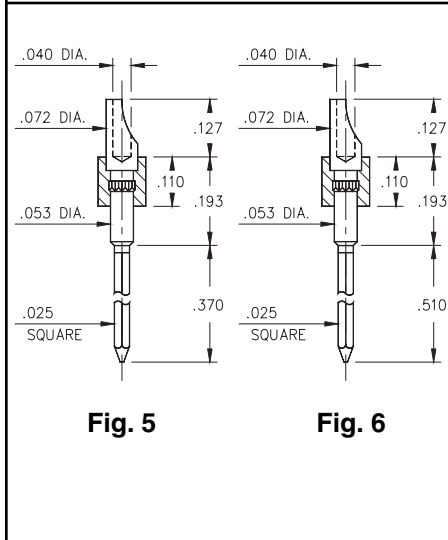


Fig. 5

Fig. 6

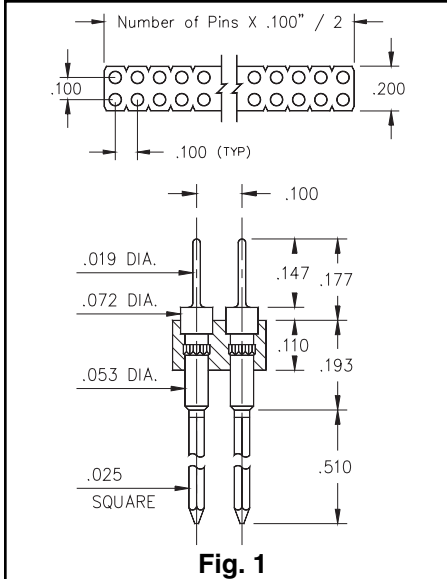
For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select  $\diamond$  plating code.

SPECIFY PLATING CODE XX=	10 $\diamond$	90	40 $\diamond$	
Pin Plating	10 $\mu$ " Au	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn	

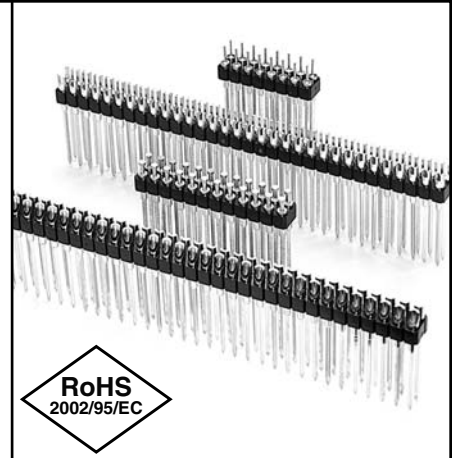




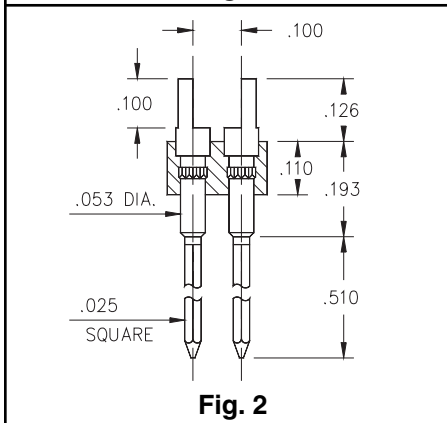
- Series 453, 463, 473, and 483 double row Header strips come with various styles (pin, slotted head, turret and solder cup) with wrapost tails.

453...001 uses pin #5301  
 463...001 uses pin #1106-3  
 473...001 uses pin #0730-3  
 483...001 uses pin #8301-3  
 See pages 194 & 195 for details.

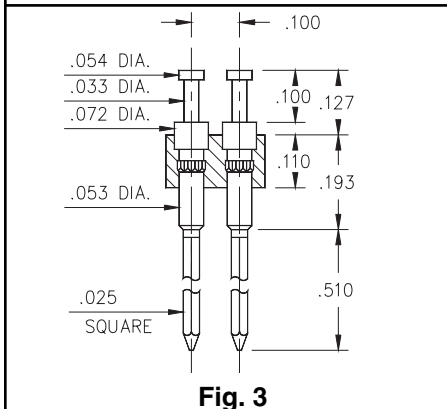
- Insulators are high temp. thermoplastic.



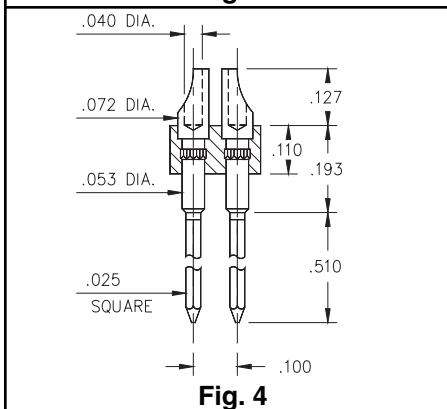
**Ordering Information**



<b>Fig. 1</b>	<b>Series 453...001 Pin / 3 Level Wrapost</b>
	453-10-2__-00-001000 Specify # of pins → 02-64



<b>Fig. 2</b>	<b>Series 463...001 Slotted Head / 3 Level Wrapost</b>
	463-XX-2__-00-001000 Specify # of pins → 02-64



<b>Fig. 3</b>	<b>Series 473...001 Turret / 3 Level Wrapost</b>
	473-XX-2__-00-001000 Specify # of pins → 02-64
<b>Fig. 4</b>	<b>Series 483...001 Solder Cup / 3 Level Wrapost</b>
	483-XX-2__-00-001000 Specify # of pins → 02-64

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

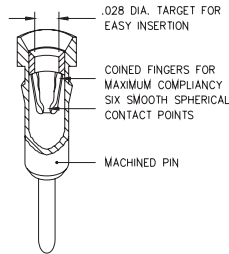
For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

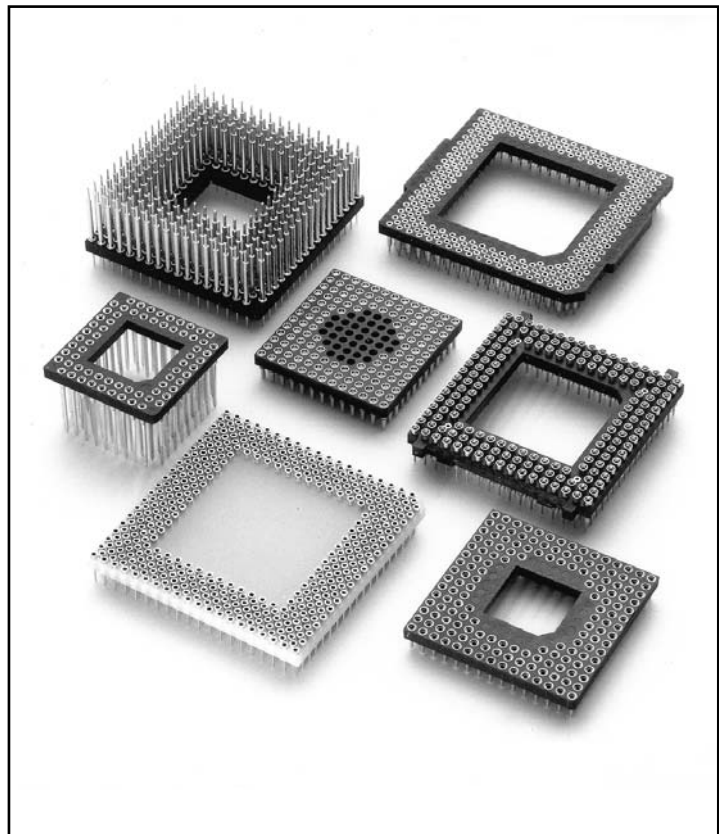
Pin grid array sockets are designed to accept high pin count IC's. They use low force 6-finger contacts to ease insertion/extraction of the device. Standard low force (M-M #32) contact is used for pin counts up to 150, ultra-low force (M-M #35) contact is recommended for 150 pins or more but less than 250 pins. The "ultra lite" (M-M #43) is recommended for 250 pins or more.

### CONTACT DETAIL

PGA sockets all have precision-machined pins, this offers the lowest possible profile. The closed bottom design also eliminates flux and solder contamination, and the pins are in-line with contact entry.



Insulator bodies are molded from high temp. PCT polyester suitable for all forms of soldering including wave, infra-red reflow and vapor phase.



### TECHNICAL SPECIFICATIONS

#### Materials

##### Insulator body:

High Temp. glass-filled thermoplastic polyester (PCT)  
Heat deflection temperature (HDT @ 264 PSI) = 255°C(490°F)  
Self-extinguishing, rated UL94V-0

##### Receptacle (Sleeve):

Screw machined brass (ASTM-B16-00), plated 10µ" gold, 200µ" tin or 200µ" tin-lead (SnPb 90/10) over 100µ" nickel.

##### Pin:

Screw machined brass (ASTM-B16-00), plated 10µ" gold, 200µ" tin or 200µ" tin-lead (SnPb 90/10) over 100µ" nickel.

##### Contact (clip):

Stamped beryllium-copper (ASTM-B194-01), plated 10µ" or 30µ" gold over 50µ" nickel.

#### Mechanical Data

##### -Insertion characteristics:

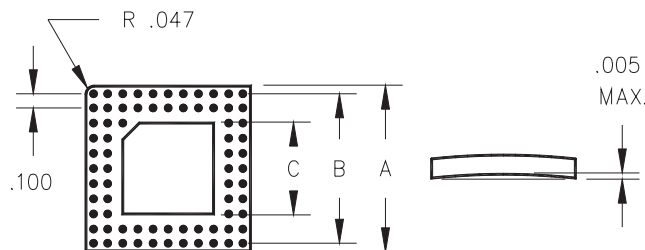
Measured with a polished steel gauge .018 diameter  
Low force M-M#32 (01 suffix) typ. insertion force 50 grams  
typ. extraction force 30 grams  
Ultra-low force M-M#35 (02 suffix) typ. insertion force 25 grams  
typ. extraction force 15 grams  
"Ultra lite" M-M#43 (03 suffix) typ. insertion force 12.5 grams  
typ. extraction force 7.5 grams

##### -Mechanical life: 100 cycles min.

#### Electrical & Environmental Data

-See general specifications on page 4.

### DIMENSIONS OF PGA SOCKET INSULATORS



DIMENSIONS A, B, and C can be calculated as follows:

**N1** = GRID SIZE (# of pins per side, outer most row only for interstitial patterns)  
**N2** = WINDOW SIZE

$$A = N1 \times .100''$$

$$B = (N1-1) \times .100''$$

$$C = (N2 \times .100'') - .016''$$

**TECHNICAL SPECIFICATIONS FOR 540 SERIES PLCC SOCKETS**

**MATERIALS:**

- Insulator: Glass filled thermoplastic, self-extinguishing rated, UL94V-0, color black.
- Contact: Plated copper alloy overall nickel underplating, tin finish.

**MECHANICAL DATA:**

- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 50 cycles min.

**ENVIRONMENTAL DATA:**

- Operating temperature: -55/+125 °C
- Vibration (No electrical discontinuity greater than 1µs): 10-2000 HZ, 15 g
- Climactic category (EIA): 365-17A

**ELECTRICAL DATA:**

- Rated current: SMD types: 1A
- Thru-hole types: 2A
- Contact resistance: 20 mΩ max.
- Insulation resistance: 5,000 MΩ min.
- Dielectric strength: 600 VRMS
- Capacitance: 2pF max.

**TECHNICAL SPECIFICATIONS FOR 940 SERIES PLCC SOCKETS**

**MATERIALS:**

- Insulator: PPS Polyphenylene Sulfide, Rated UL94V-0.
- Contact: Phosphor Bronze with a tin finish and nickel underplate.

**MECHANICAL DATA:**

- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 25 cycles min.

**ENVIRONMENTAL DATA:**

- Operating temperature: -55/+105 °C
- Vibration (No electrical discontinuity greater than 1µs): 10-2000 HZ, 15 g
- Climactic category (EIA): 365-17A

**ELECTRICAL DATA:**

- Rated current: SMD types: 1A
- Thru-hole types: 1A
- Contact resistance: 30 mΩ max.
- Insulation resistance: 10,000 MΩ min.
- Dielectric strength: 600 VAC
- Capacitance: 1pF max.

**TECHNICAL SPECIFICATIONS FOR BGA ADAPTER SYSTEM**

Initial value: 1,000,000 MΩ min.  
After climatic tests: 10,000 MΩ min.

**Materials:**

- Socket contact: Three finger, stamped beryllium copper alloy 172, HT (Mill-Max type #04 or #05); plated 10µ" gold over 50µ" nickel.
- Socket shell and adapter pins: Precision machined brass alloy; plated 10µ" gold over 100µ" nickel.
- Insulator material: .047" or .062" thick glass-epoxy type FR-4, rated UL94V-0. TCE = 10-13ppm/°C, ε<sub>r</sub> = 5.0

**Mechanical:**

- Insertion and withdrawal forces (using .010" dia. polished steel gage pin): Insertion: .36N typ. per pin  
Withdrawal: .20N typ. per pin
- Insertion force of an actual 225 pin device: 90N
- Durability: 100 cycles
- Coplanarity: ≤.005"

**Electrical:**

- Current rating (per pin): 1 A
- Working voltage: 100 VRMS/150 VDC max.
- Low level contact resistance: 10 mΩ max.
- Insulation resistance @ 500 VRMS:

- Dielectric withstanding voltage: 500 V<sub>RMS</sub>
- Capacitance between adjacent contacts: 1 pF max.
- Self inductance per pin: 2 nH max.
- Electrical length: 31 pS

**Environmental:**

- Operating temperature range: -55 °C to +125 °C
- BGA adapter/socket systems have withstood the following environmental tests without mechanical or electrical failure:
- Damp heat, steady state: 40 °C, 93% rH, 21 days
  - Damp heat, cyclic: 25/55 °C, 6 days
  - Dry heat: 100°C, 1,000 hours
  - Thermal shock: -55 to +125 °C, 5 cycles
  - Random vibration: 50 to 500 Hz, 8g, 20 min. per axis
  - Shock: 50 g per axis
  - Solderability: 235 °C, 2 seconds
  - Resistance to soldering heat: 270 °C, 10 seconds
  - Resistance to corrosion: Salt spray: 48 hours
  - Sulphur dioxide: 96 hours @ 25 ppm SO<sub>2</sub>, 25 °C, 75% rH
  - Hydrogen sulphide: 96 hours @ 12 ppm H<sub>2</sub>S, 25°C, 75% rH



# PIN GRID ARRAY SOCKETS .100" and Interstitial Grid Surface Mount and Through Hole

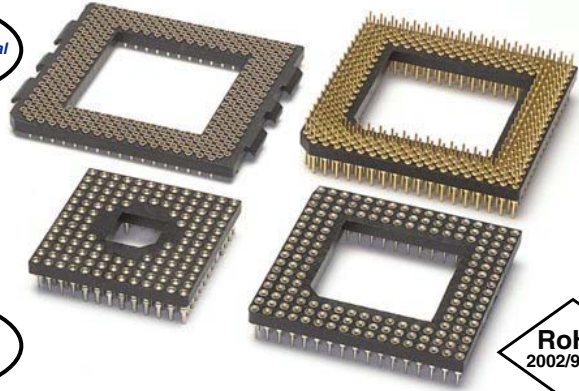
Series 510, 511, 513,  
514, 515, 518, 522, 523

- Series 510, 511, 514, 515, 522 & 523 PGA sockets are available on .100" centers.
- Series 513 and 518 PGA sockets are available for Interstitial patterns.
- Choice of three low force clips to cover all applications.
- Hi-Temp PCT polyester insulator material suitable for all forms of soldering.

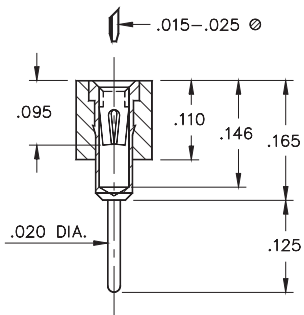
For RoHS compliance  
select  $\diamond$  plating code.

For Electrical,  
Mechanical & Environmental  
Data, See pg. 112

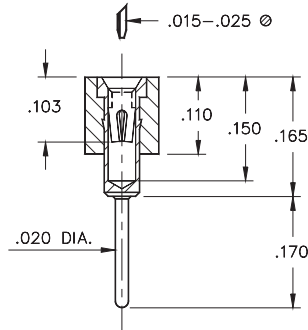
XX=Plating Code  
See Below



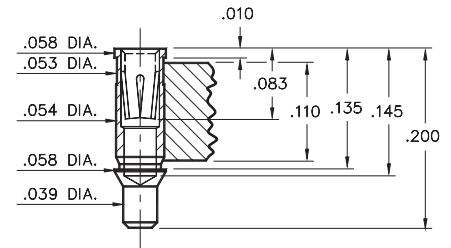
### STANDARD SOLDER TAIL SERIES 510



### LONG SOLDER TAIL SERIES 511

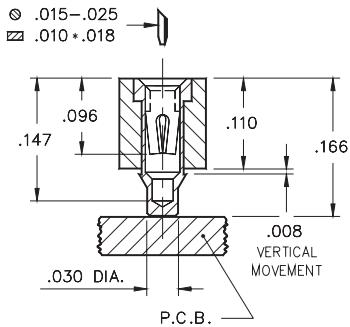


### SMT RECEPTACLE SERIES 513

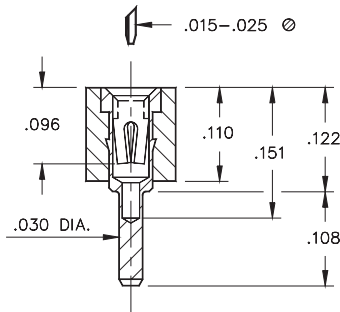


Interstitial Patterns Only

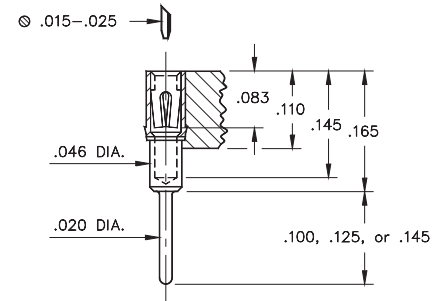
### SMT RECEPTACLE SERIES 514



### LOW PROFILE SOLDER TAIL SERIES 515

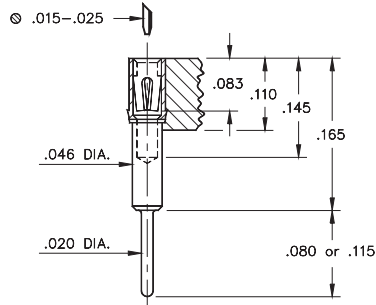


### SOLDER TAIL (Without Heatsink Tabs) SERIES 518



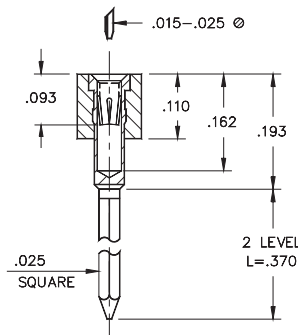
Interstitial Patterns Only

### SOLDER TAIL (With Heatsink Tabs) SERIES 518

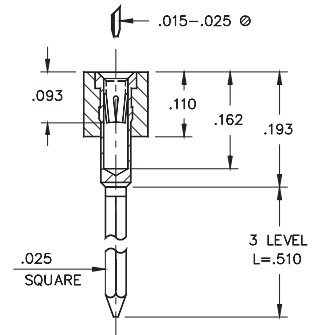


Interstitial Patterns Only

### 2 LEVEL WRAPOST SERIES 522



### 3 LEVEL WRAPOST SERIES 523



Visit [www.mill-max.com/pgs](http://www.mill-max.com/pgs)  
To configure a formal Part Number

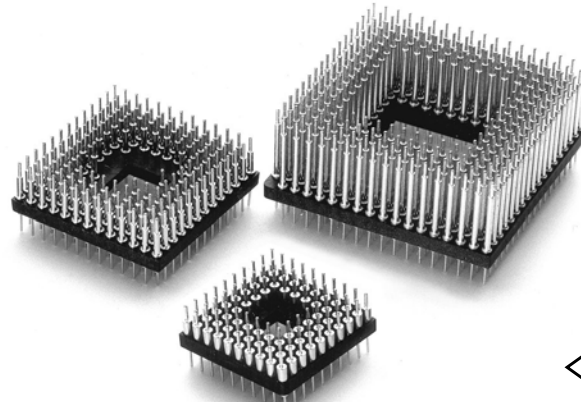
SPECIFY PLATING CODE XX=	13 $\diamond$	93	43 $\diamond$
Sleeve (Pin)	10 $\mu$ " Au	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn
Contact (Clip)	30 $\mu$ " Au	30 $\mu$ " Au	30 $\mu$ " Au



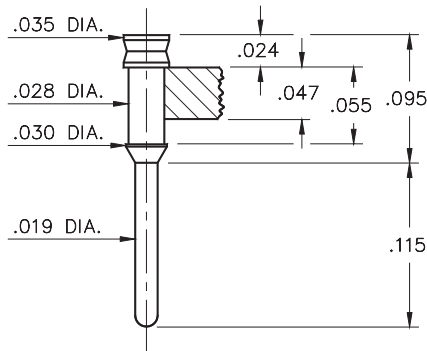
# PIN GRID ARRAY HEADERS .100" and Interstitial Grid Surface Mount and Through Hole

Series 507, 550, 551, 599

- Series 551 and 599 headers are available on .100" centers.
- Series 507 & 550 PGA sockets are available for Interstitial patterns.
- Hi-Temp PCT polyester insulator material suitable for all forms of soldering.

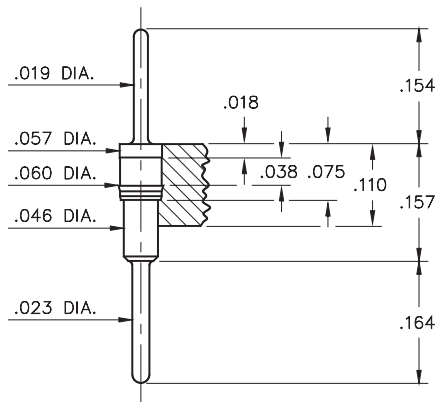


### SMT HEADER PIN TYPE 0737 SERIES 507



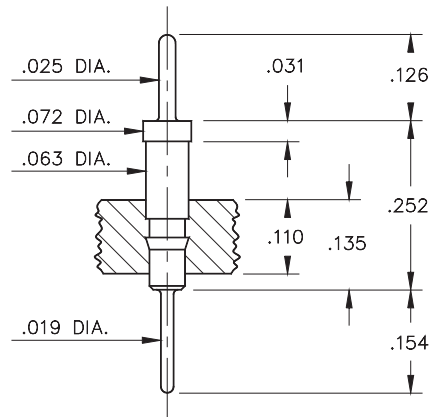
Interstitial Patterns Only

### HEADER PIN TYPE 5012 SERIES 550

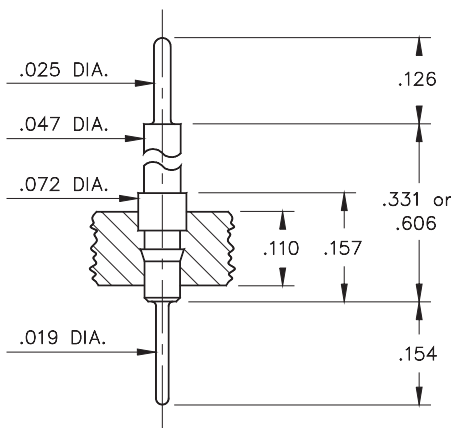


Interstitial Patterns Only

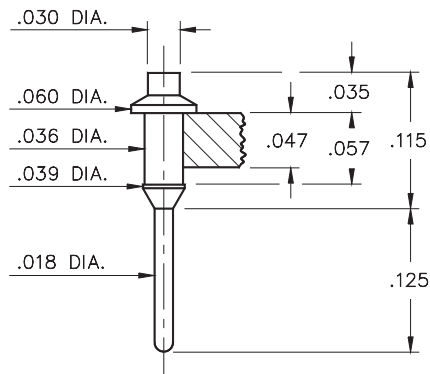
### HEADER PIN TYPE 5503 SERIES 551



### HEADER PIN TYPE 5504 & 5505 SERIES 551



### SMT HEADER PIN TYPE 9976 SERIES 599



For Electrical, Mechanical & Environmental Data, See pg. 112

XX=Plating Code See Below

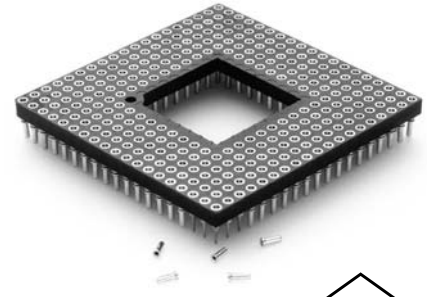
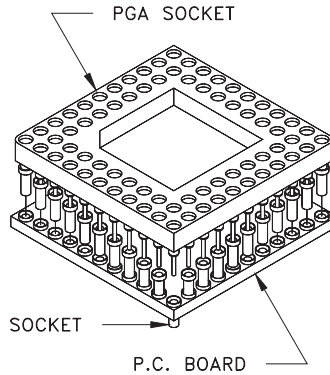
For RoHS compliance select  $\diamond$  plating code.

Visit [www.mill-max.com/pga](http://www.mill-max.com/pga)  
To configure a formal Part Number

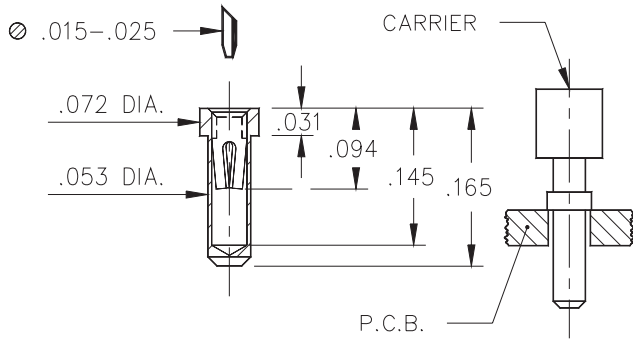
SPECIFY PLATING CODE XX=	10 $\diamond$	90	40 $\diamond$	
Pin Plating	10 $\mu$ Au	200 $\mu$ Sn/Pb	200 $\mu$ Sn	

- Series 614 & 605 PGA carrier sockets offer 4 receptacle styles.
- Many combinations of receptacles and clips to cover all applications.
- Hi-Temp PCT polyester insulator material suitable for all forms of soldering.
- Carrier sockets provide a convenient way of loading groups of receptacles onto a PC board.

**APPLICATION OF  
PGA SOCKET CARRIERS**

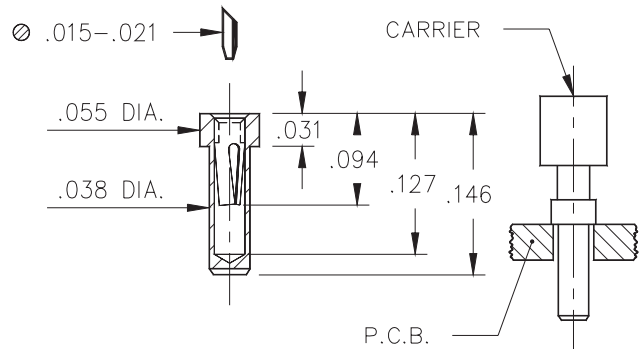


**LOW PROFILE SOCKET  
SERIES 614...001, 002, 003**

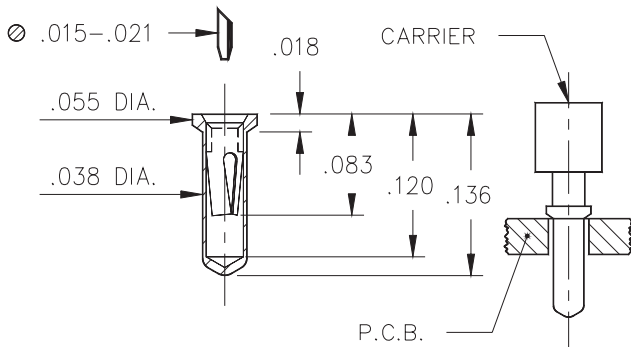


**For .100" Grid Only**

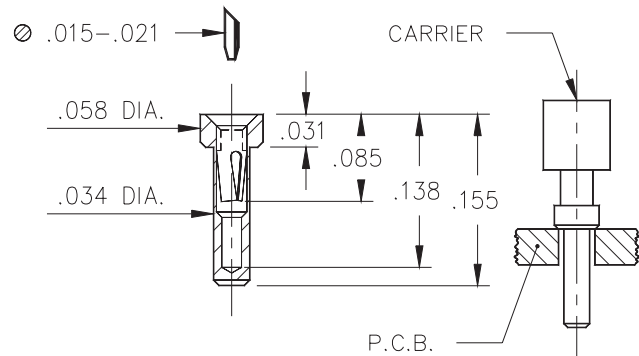
**MINIATURE SOCKET  
SERIES 614...007**



**LOWEST PROFILE SOCKET  
SERIES 614...012**



**REDUCED BARREL SOCKET  
SERIES 605...048**



For Electrical,  
Mechanical & Environmental  
Data, See pg. 112

XX=Plating Code  
See Below

For RoHS compliance  
select  $\diamond$  plating code.

Visit [www.mill-max.com/pgacARRIER](http://www.mill-max.com/pgacARRIER)  
To configure a formal Part Number

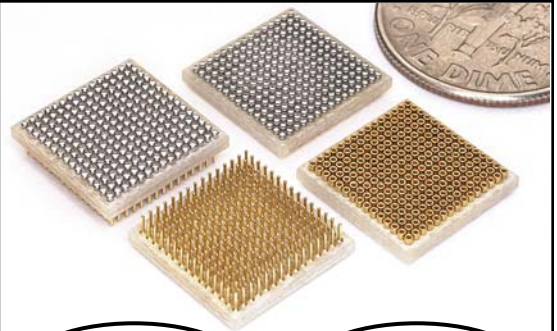
SPECIFY PLATING CODE XX=	13 $\diamond$	93	43 $\diamond$
Sleeve (Pin)	10 $\mu$ " Au	200 $\mu$ " Sn/Pb	200 $\mu$ " Sn
Contact (Clip)	30 $\mu$ " Au	30 $\mu$ " Au	30 $\mu$ " Au



# BALL GRID ARRAYS For 0,8mm Grid, 1mm Grid and .050" Grid Male Pin Adapters & Female Sockets

Series 540, 579, 582, 587, 599

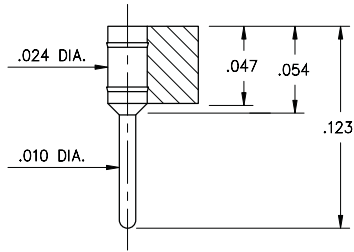
- BGA adapter/socket systems are a reliable way to make BGAs pluggable. They may also be used as a high density board-to-board interconnect.
- The BGA device for a 0,8mm or 1mm grid is soldered to a 9929 adapter (or a 7929 adapter is soldered to a PCB), then either one can be plugged into a 9942 (0.8mm grid) or 9928 (1mm grid) surface mount socket.
- The BGA device for a .050" grid is soldered to a 8737/4048 adapter (or a 4098/4054 adapter is soldered to a PCB), then either one can be plugged into a 8214 surface mount socket.
- Both socket and adapter have the same footprint as the BGA device.
- Insertion force is .4N per pin for standard pins 7929/9929, 8737/4098. Tapered EZ-IN pins 4048/4054 reduce insertion force to only .08N, and are recommended for pin counts greater than 500.
- Insulator material is FR-4 epoxy having a TCE to match the BGA device and circuit board.



For Electrical,  
Mechanical & Environmental  
Data, See pg. 113

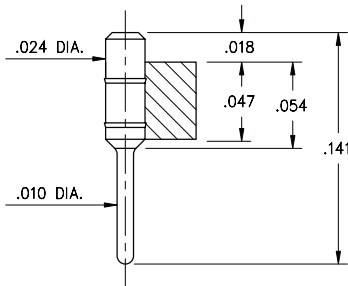
XX=Plating Code  
See Below

### BGA MOUNT TYPE 9929 SERIES 599...429



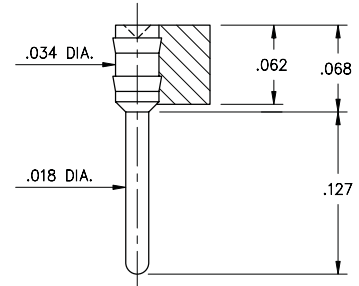
For 0,8mm & 1mm Grid Only

### PCB MOUNT TYPE 7929 SERIES 579...429



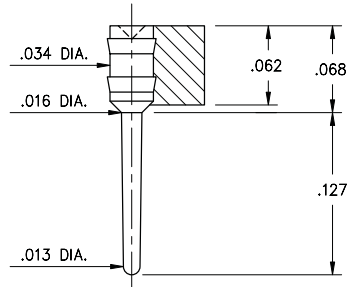
For 0,8mm & 1mm Grid Only

### BGA MOUNT TYPE 8737 SERIES 587...437



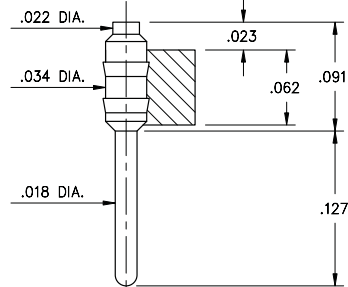
For .050" Grid Only

### EZ-IN BGA MOUNT TYPE 4048 SERIES 540...448



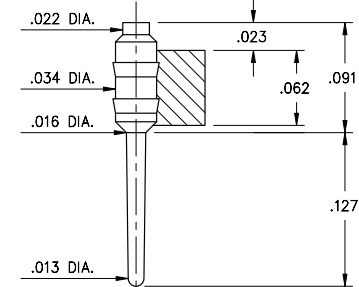
For .050" Grid Only

### STANDARD PCB MOUNT TYPE 4098 SERIES 540...498



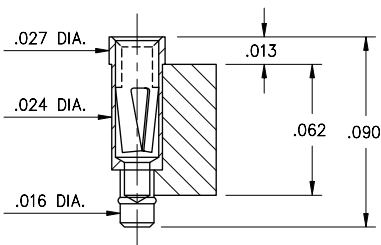
For .050" Grid Only

### EZ-IN PCB MOUNT TYPE 4054 SERIES 540...454



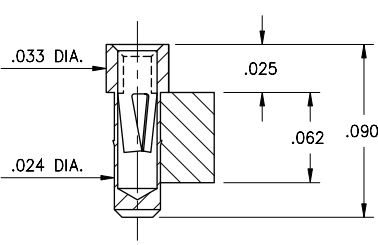
For .050" Grid Only

### SURFACE MOUNT TYPE 9942 SERIES 599...442



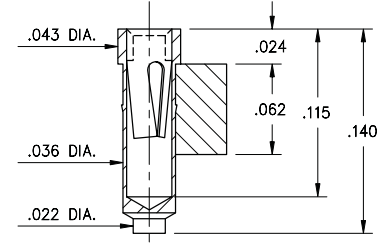
For 0,8mm Grid Only

### SURFACE MOUNT TYPE 9928 SERIES 599...428




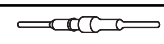

For 1mm Grid Only

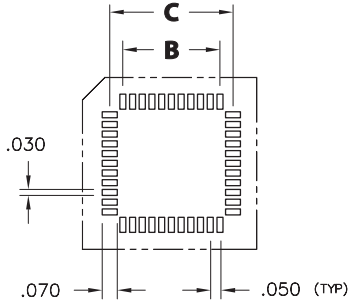
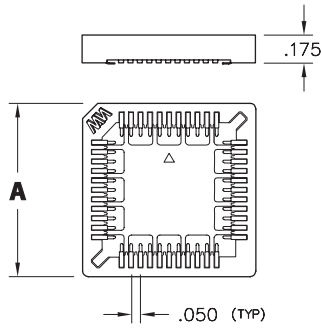
### SURFACE MOUNT TYPE 8214 SERIES 582...414



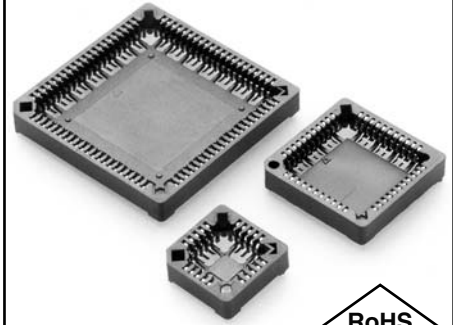
For .050" Grid Only

Visit [www.mill-max.com/bga](http://www.mill-max.com/bga)  
To configure a formal Part Number

SPECIFY PLATING CODE XX=	11 ◇	PLATING CODE XX=	10 ◇
Sleeve (Receptacle) 	10µ" Au	Pin Plating 	10µ" Au
Contact (Internal Clip) 	10µ" Au		

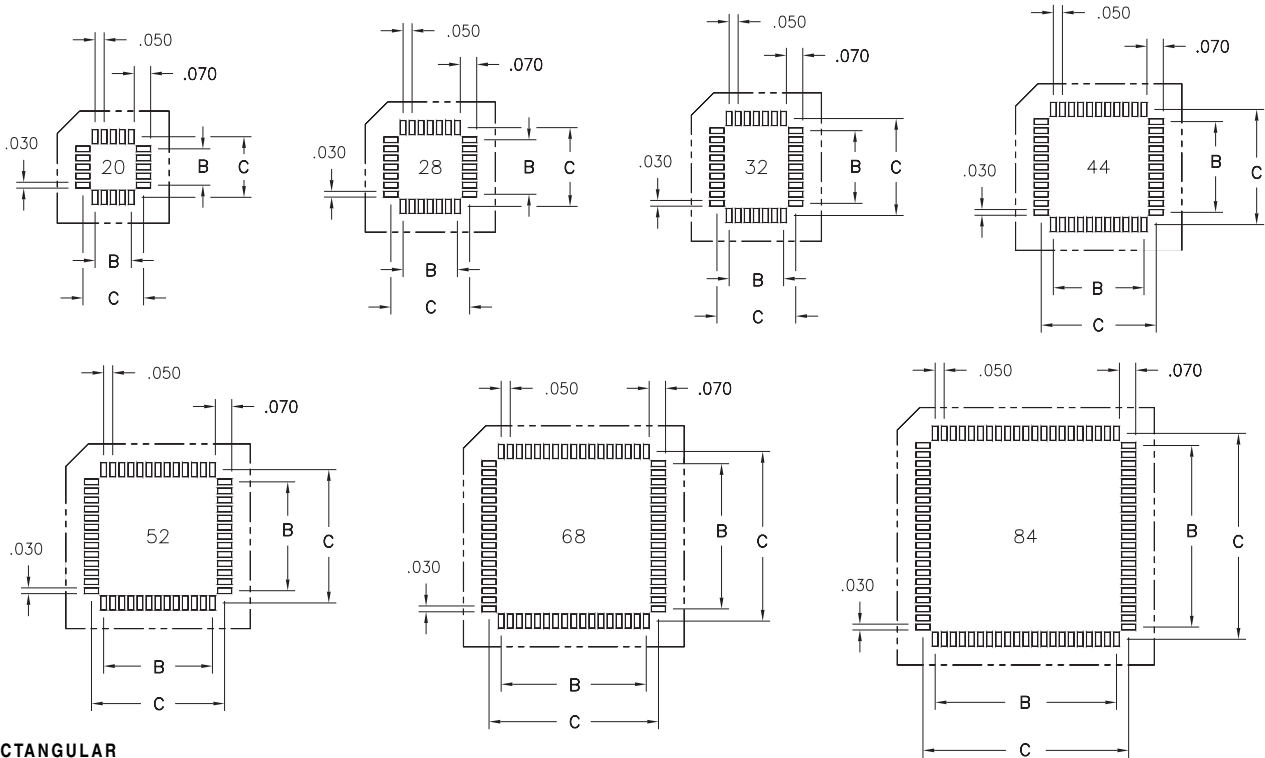


- Note: Not end stackable.
- Accepts JEDEC PLCCs MO-047 and MO-052.
- Low profile for high density PC board stacking.
- Standoffs provide clearance for heat dissipation and cleaning.
- Contacts are plated with 150 $\mu$ " tin.
- Insulator material is glass reinforced PPS.



For Electrical,  
Mechanical & Environmental  
Data, See pg. 113

PCB LAYOUT FOR SURFACE MOUNT

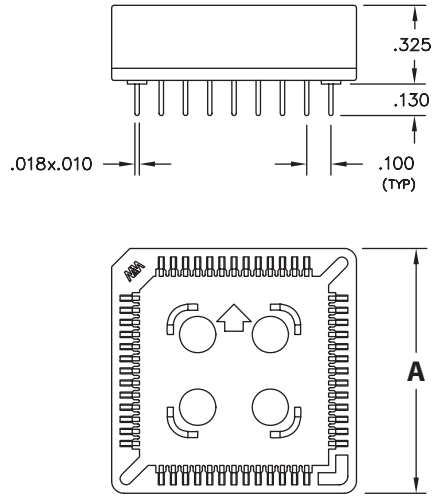


\* RECTANGULAR

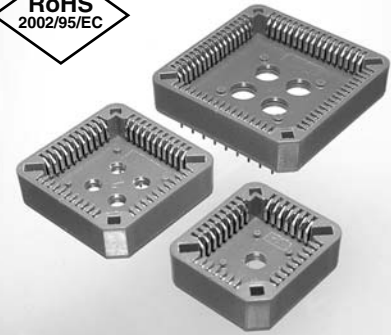
No. of Contacts	Ordering Information	- A -	- B -	- C -	Qty. per Tube	Qty. per Reel
20	940-44-020-17-40000X	0.613	0.200	0.334	32	470
28	940-44-028-17-40000X	0.713	0.300	0.434	27	390
32*	940-44-032-17-40000X*	.813 / .713	.400 / .300	.534 / .434	24	390
44	940-44-044-17-40000X	0.900	0.500	0.634	21	250
52	940-44-052-17-40000X	1.013	0.600	0.734	19	250
68	940-44-068-17-40000X	1.213	0.800	0.934	16	220
84	940-44-084-17-40000X	1.413	1.000	1.134	14	200

Packaging Codes: X = 0 (Tubes)   
 X = 4 (Tape & Reel)





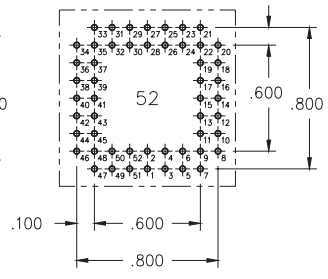
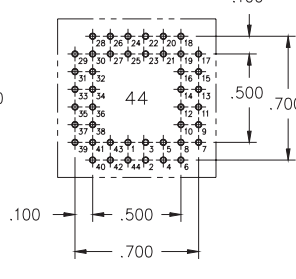
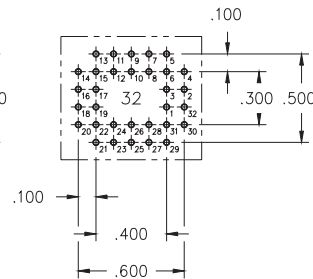
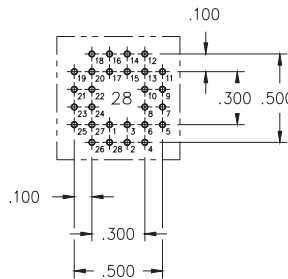
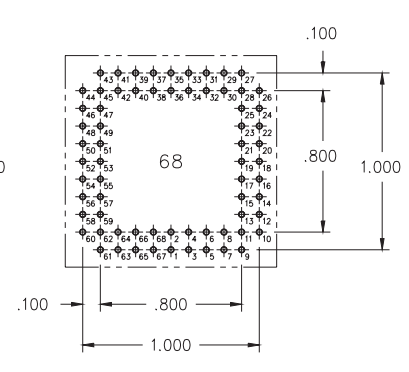
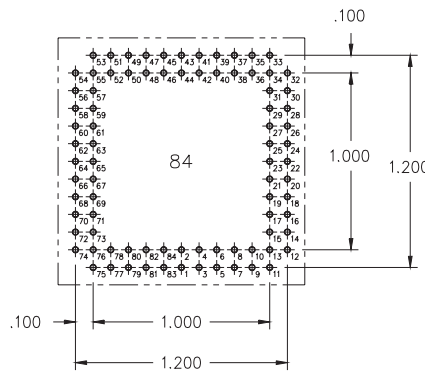
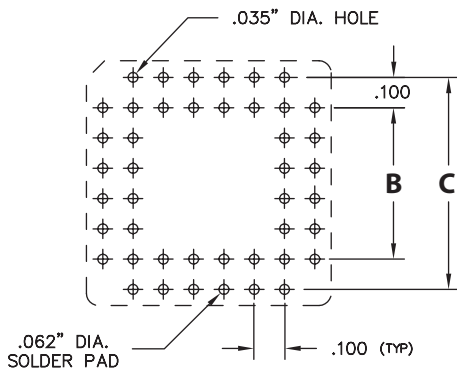
- Note: Not end stackable.
- Accepts JEDEC PLCCs MS-016 & MS-018 leaded plastic substrates.
- Internal standoffs insure proper positioning of chip carrier in socket.
- Standoffs provide clearance for heat dissipation and cleaning.
- Contacts are plated with 150 μ" tin.
- Insulator material is glass reinforced PPS.



*For Electrical,  
Mechanical & Environmental  
Data, See pg. 113*

### PRINTED CIRCUIT DRILLING PATTERNS (TOP VIEW)

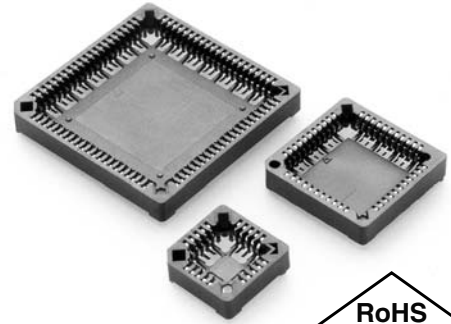
.035" dia. min. mounting holes



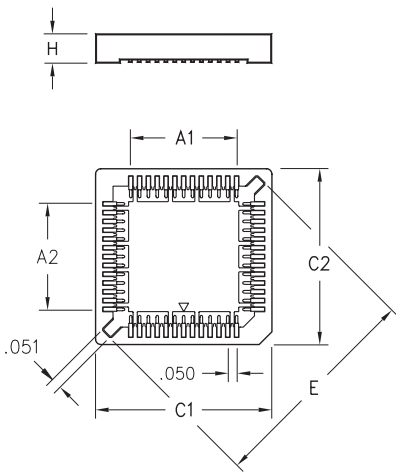
No. of Contacts	Ordering Information	- A -	- B -	- C -	Quantity per Tube
20	940-44-020-24-000000	0.613	0.200	0.400	38
28	940-44-028-24-000000	0.713	0.300	0.500	33
32*	940-44-032-24-000000*	.813 / .713	.400 / .300	.600 / .500	29
44	940-44-044-24-000000	0.913	0.500	0.700	26
52	940-44-052-24-000000	1.013	0.600	0.800	23
68	940-44-068-24-000000	1.213	0.800	1.000	19
84	940-44-084-24-000000	1.413	1.000	1.200	16
100	940-44-100-24-000000	1.603	1.200	1.400	25

Plating Code 44 ◊ = 150μ" Sn \*RECTANGULAR

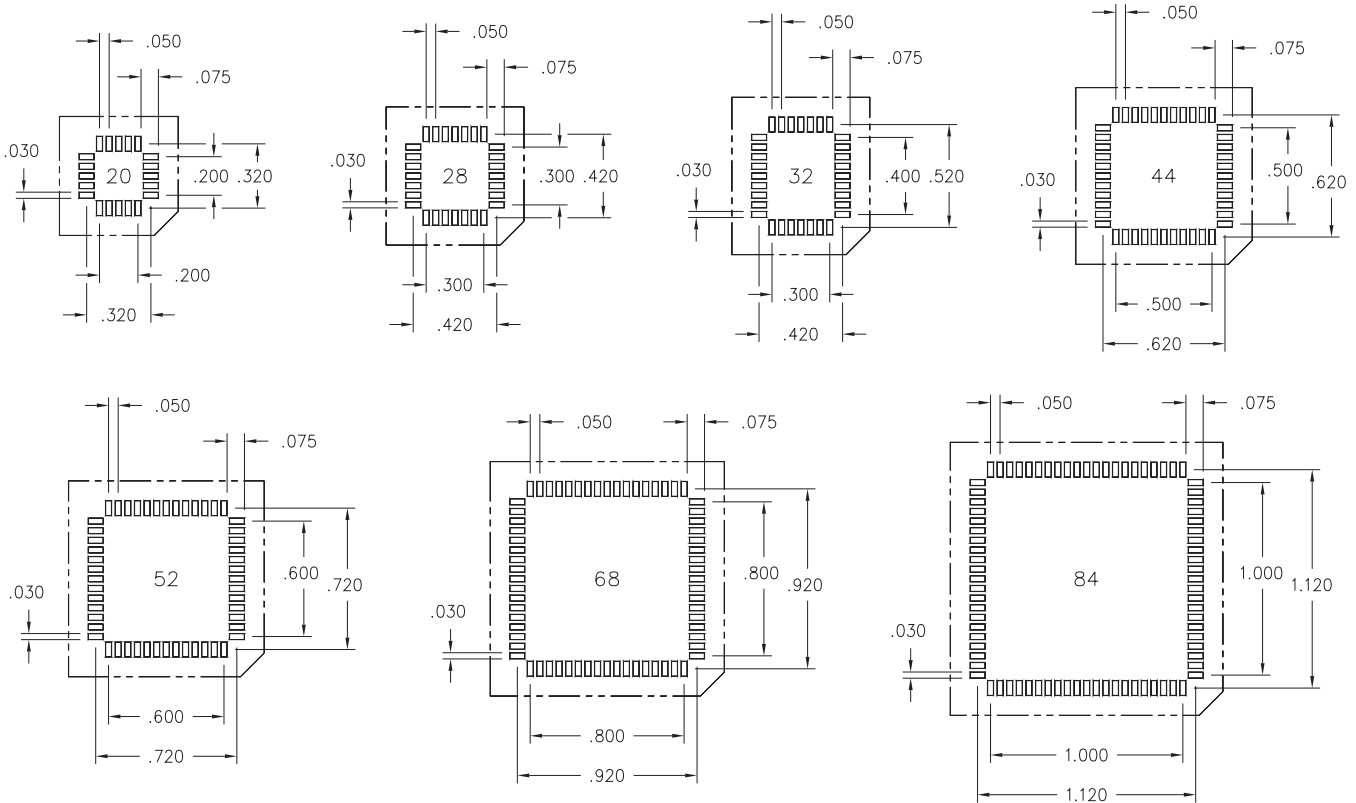
- Note: End stackable.
- Designed for JEDEC type devices.
- Open frame design in solder area improves results of IR soldering and facilitates visual inspection of solder pads.
- Contacts are plated with 150 $\mu$  tin.
- The insulator is molded PPS (Ryton R-4).



For Electrical,  
Mechanical & Environmental  
Data, See pg. 113



PCB LAYOUT FOR SURFACE MOUNT



\* RECTANGULAR

No. of Contacts	Ordering Information	- A1 -	- A2 -	- C1 -	- C2 -	- E -	- H -	Qty. per Tube	Tape Width mm	Qty. per Reel
20	540-44-020-17-40000X	0.200	0.200	0.585	0.585	0.657	0.180	34	24	490
28	540-44-028-17-40000X	0.300	0.300	0.685	0.685	0.799	0.180	29	32	400
32*	540-44-032-17-40000X*	0.300	0.400	0.670	0.770	0.885	0.148	26	32	400
44	540-44-044-17-40000X	0.500	0.500	0.885	0.885	1.082	0.180	22	44	250
52	540-44-052-17-40000X	0.600	0.600	1.000	1.000	1.224	0.180	20	44	250
68	540-44-068-17-40000X	0.800	0.800	1.202	1.202	1.507	0.180	16	44	220
84	540-44-084-17-40000X	1.000	1.000	1.400	1.400	1.791	0.180	14	56	200

Packaging Codes: X = 0 (Tubes)   
 X = 4 (Tape & Reel)

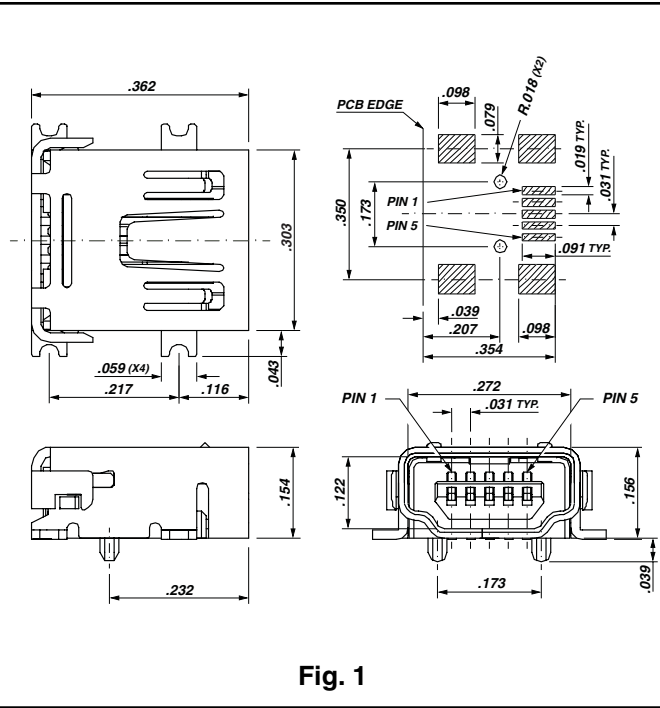


Fig. 1

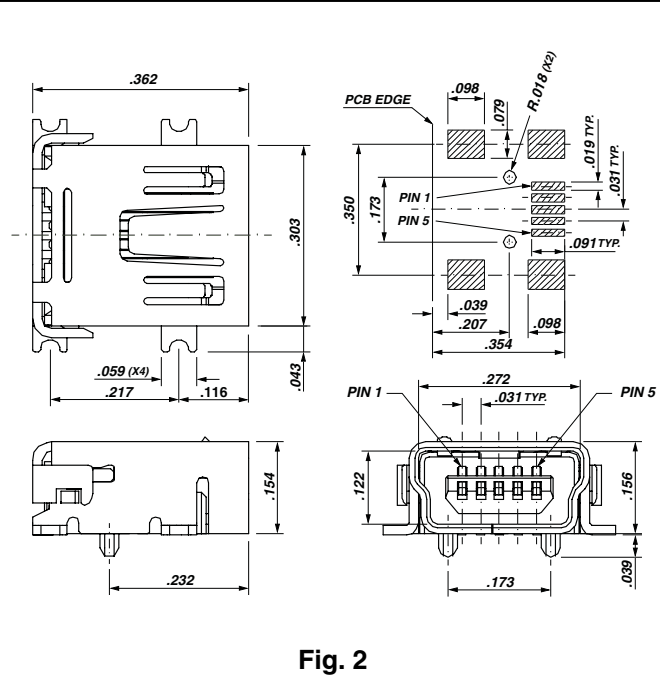
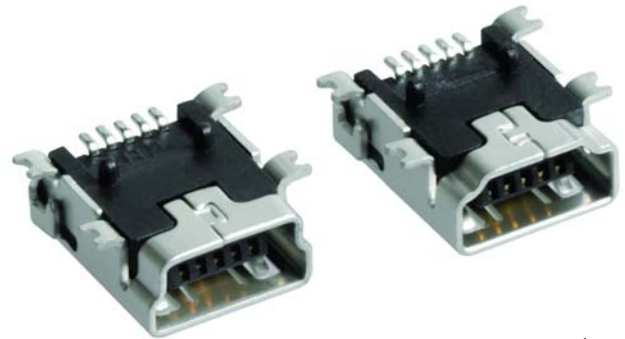


Fig. 2

**Applications:**

- Cell phones
- Digital still cameras
- Digital video cameras
- PDAs
- MP3 Players
- Other portable and hand-held devices



**Features**

- Mini USB receptacles for surface mount.
- 5 Pin (one ID Pin), 0.8mm pitch, mini USB connector.
- Reduced mounting space.
- Fully Shielded.
- Fully compliant with current USB 2.0 specifications.
- Smaller and lighter than existing USB connectors for portable and handheld devices.
- Packaged on Tape & Reel - 700 parts per reel.

**Ordering Information:**

Figure 1: Mini Type A Recept., Single, Surface Mount  
**896-43-005-00-100001**

Figure 2: Mini Type B Recept., Single, Surface Mount  
**897-43-005-00-100001**

**Specifications**

**Materials:**

Terminals: Copper Alloy, Tin Plated  
Contacts: Copper Alloy, 30 μm Gold Plated  
Casing & Shield: Stainless Steel  
Insulator material: High temp. thermoplastic rated UL94V-0

**Ratings:**

Voltage: 30VAC (rms)  
Current: 1A max. per contact for 30°C temperature rise  
All housing materials rated for "lead-free" soldering up to 260°C

**Electrical:**

Contact resistance: 50mΩ max.  
Insulation resistance: 100MΩ min.  
Dielectric withstanding voltage: 100VAC at sea level  
Capacitance: 2pF max.

**Mechanical:**

Random vibration: No discontinuity >1μs per EIA 364-28, cond. V, letter A  
Physical shock: No discontinuity >1μs per EIA 364-27, condition H  
Durability: 5000 cycles min. per EIA 364-09  
Mating force: 35 Newtons max. per EIA 364-13  
Unmating force: Initial - 7 Newtons min. per EIA 364-13  
After test - 3 Newtons min. per EIA 364-13  
Cable Pull-out force per EIA 364-38

**Environmental:**

Thermal shock per EIA 364-32, condition I  
Humidity per EIA 364-31, method III, condition A  
Temperature life per EIA 364-17, condition 3, method A  
Solderability per EIA 364-52, category 2

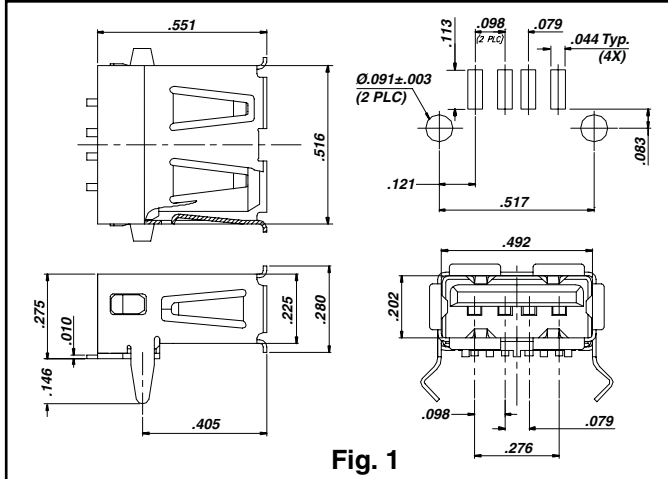


Fig. 1

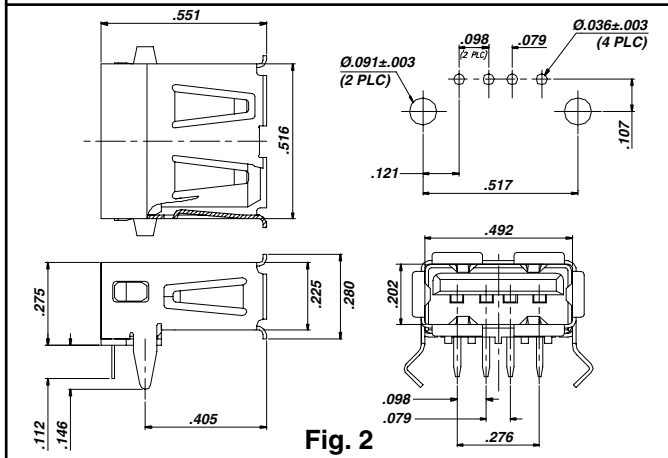


Fig. 2

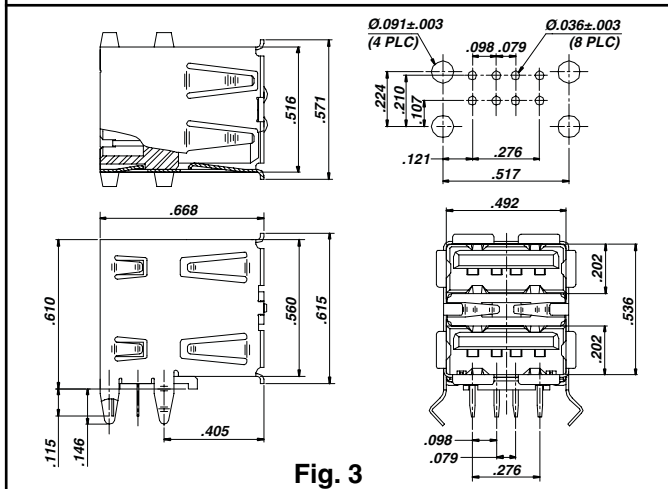


Fig. 3

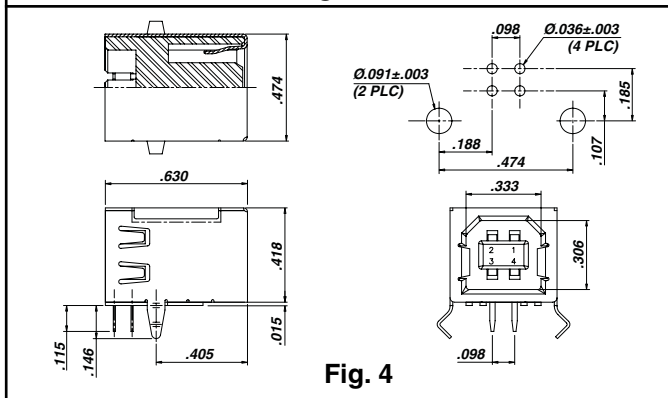


Fig. 4



### Features

- USB receptacles for through-hole & surface mount.
- Plug retention tabs.
- Kinked locating legs for secure PCB retention.
- Fully Shielded.
- Fully compatible with USB 1.0 & 2.0 specifications.
- Passes 16MHz Signal Attenuation per ASTM-D-4566.
- Packaged in trays, 150 pieces per tray.

### Ordering Information

Figure 1: Type A Receptacle, Single, Surface Mount  
**896-43-004-00-000000**

Figure 2: Type A Receptacle, Single, Through Hole  
**896-43-004-90-000000**

Figure 3: Type A Receptacle, Double, Through Hole  
**896-43-008-90-000000**

Figure 4: Type B Receptacle, Single, Through Hole  
**897-43-004-90-000000**

### Specifications

#### Materials:

Terminals: Copper Alloy, Tin Plated  
Contacts: Copper Alloy, 30 μ" Gold Plated  
Casing & Shield: Stainless Steel  
Insulator material: High temp. thermoplastic rated UL94V-0

#### Ratings:

Voltage: 30VAC (rms)  
Current: 1A max. per contact for 30°C temperature rise  
All housing materials rated for "lead-free" soldering up to 260°C

#### Electrical:

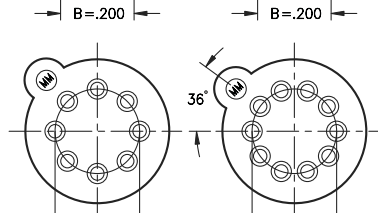
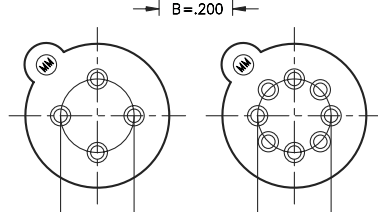
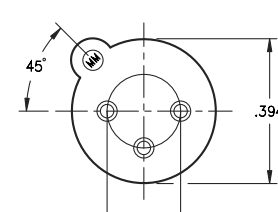
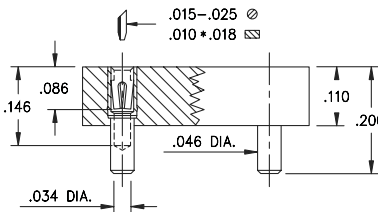
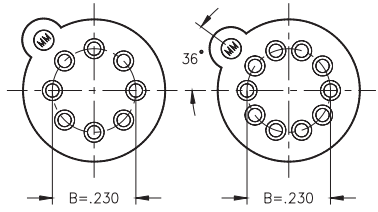
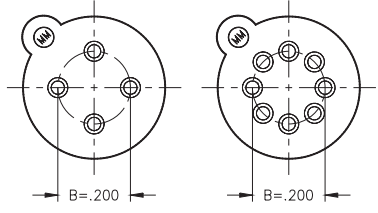
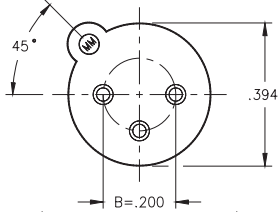
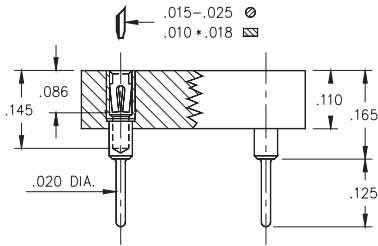
Contact resistance: 30mΩ max.  
Insulation resistance: 1000MΩ min.  
Dielectric withstanding voltage: 750VAC at sea level  
Capacitance: 2pF max.

#### Mechanical:

Random vibration: No discontinuity >1μs per EIA 364-28, cond. V, letter A  
Physical shock: No discontinuity >1μs per EIA 364-27, condition H  
Durability: 1500 cycles min. per EIA 364-09  
Mating force: 35 Newtons max. per EIA 364-13  
Unmating force: 10 Newtons min. per EIA 364-13

#### Environmental:

Thermal shock per EIA 364-32, condition I  
Humidity per EIA 364-31, method II, condition A  
Temperature life per EIA 364-17, condition 3, method A



- Series 917 TO package sockets are available in 3, 4, 8 and 10 positions.
- Two 8 pin versions feature pin centers on .200" or .230" circle.
- Series 917\_005 use MM #1802 pins, see page 140 for details. Receptacles use Hi-Rel, 4 finger #30 contact rated at 3 amps. See page 218 for details.
- Series 917\_001 use MM #1701 pins, see page 140 for details. Receptacles use Hi-Rel, 4 finger #30 contact rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



### Ordering Information

#### Transistor Sockets (Through-Hole Mount)

Type	Circle Dia.	No. of Pins	Ordering Information
TO-5	0.200	3	917-XX-103-41-005000
TO-5	0.200	4	917-XX-104-41-005000
TO-5	0.200	8	917-XX-108-41-005000
TO-100	0.230	8	917-XX-208-41-005000
TO-100	0.230	10	917-XX-210-41-005000

#### Transistor Sockets (Surface Mount)

Type	Circle Dia.	No. of Pins	Ordering Information
TO-5	0.200	3	917-43-103-41-001000
TO-5	0.200	4	917-43-104-41-001000
TO-5	0.200	8	917-43-108-41-001000
TO-100	0.230	8	917-43-208-41-001000
TO-100	0.230	10	917-43-210-41-001000

For Electrical, Mechanical & Environmental Data, See pg. 4
XX=Plating Code See Below
For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=		93		43◇
Sleeve (Pin)		200µ" Sn/Pb		200µ" Sn
Contact (Clip)		30 µ" Au		30 µ" Au

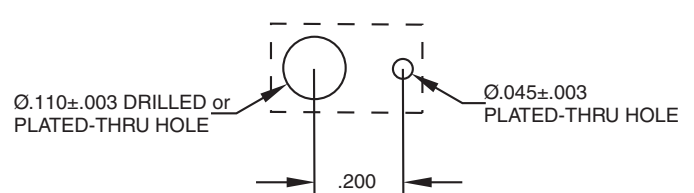
- Available to accept 3 pin sizes: 1, 1.5, & 2mm.
- Uses Hi-Temp PCT poly-ester insulator.
- Standard Insulator color is black.

Pin Size	Ordering Information
1.0mm	395-XX-101-34-34X000
1.5mm	395-XX-101-03-38X000
2.0mm	395-XX-101-07-35X000

Insulator Color Options

X= 0 - Black

RECOMMENDED MOUNTING HOLES



For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select  $\diamond$  plating code.

SPECIFY PLATING CODE XX=	13 $\diamond$		93				
Sleeve (Pin)	10 $\mu$ " Au		200 $\mu$ " Sn/Pb				
Contact (Clip)	30 $\mu$ " Au		30 $\mu$ " Au				

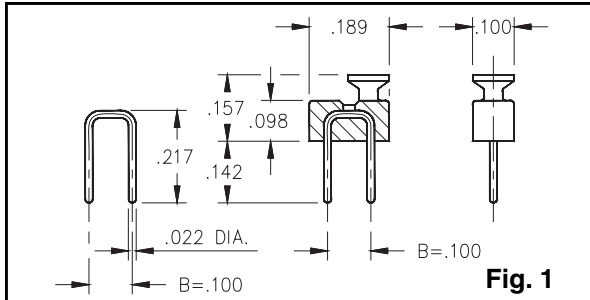


Fig. 1

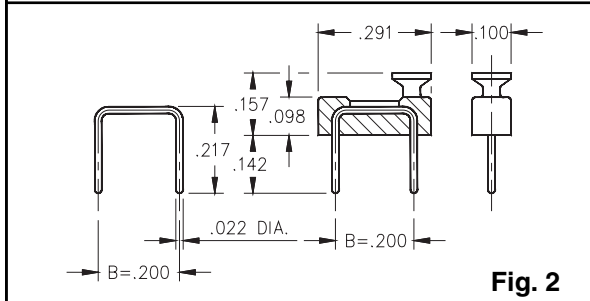


Fig. 2

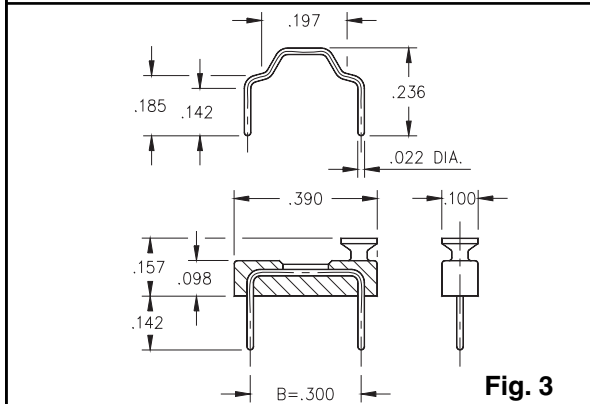
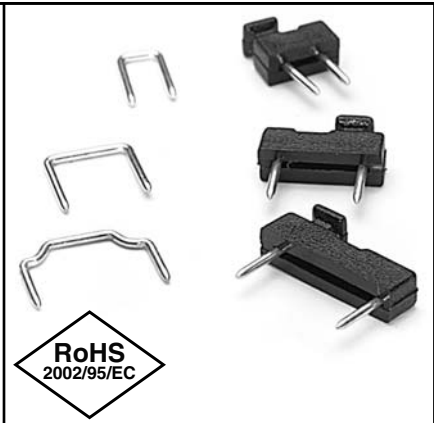


Fig. 3

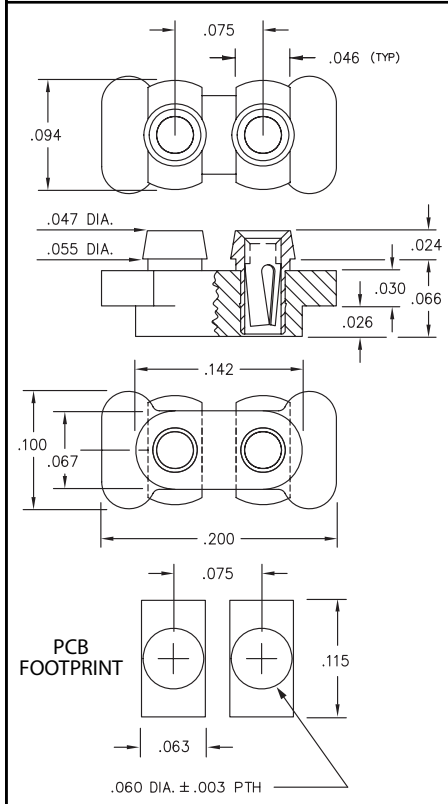
- Male shorting jumpers are available with or without insulator and have .022" diameter pins with .100", .200" or .300" center spacing.
- Insulator materials are not high temperature.

For Electrical, Mechanical & Environmental Data, See pg. 4



Ordering Information

Fig. 1	Male Shorting Jumper .100" Spacing	
	Color / Style	Plating 10μ" Au ◇
	Black	999-11-210-10-000000
	Not Insulated	999-11-110-10-000000
Fig. 2	Male Shorting Jumper .200" Spacing	
	Color / Style	Plating 10μ" Au ◇
	Black	999-11-220-10-000000
	Not Insulated	999-11-112-10-000000
Fig. 3	Male Shorting Jumper .300" Spacing	
	Color / Style	Plating 10μ" Au ◇
	Black	999-11-230-10-000000
	Not Insulated	999-11-113-10-000000



- Series 388 microphone socket is a bottom entry socket for microphones having Ø.018" pins on .075" centers.
- Designed to be surface mount and intrusive reflow soldered.
- Insulator is high temp. Nylon 46, rated UL 94 V-0.
- Series 388 use MM #8874 pins. See page 130 for details.



Microphone Socket

Ordering Information

XX=Plating Code See Below

388-XX-102-11-740800 (Discrete socket)

Plating Code

388-XX-102-11-740799 (Supplied on 12mm wide carrier tape per EIA-481: 6,500 per 13" reel)

SPECIFY PLATING CODE XX=				99			44 ◇
Sleeve (Pin)				200μ" Sn/Pb			200μ" Sn
Contact (Clip)				200μ" Sn/Pb			200μ" Sn

## THE BASIC RECEPTACLE

The basic conducting element used in printed circuit board (PCB) connections is the pin receptacle. The Mill-Max pin receptacle is typically used to make devices on the PC board pluggable while maintaining a low profile, or as the contact in a cable assembly. The machined shell or housing of pin receptacles is available in various styles depending on the application. The terminal end of pin receptacles has many variations: a round solder tail, a press-fit tail, a surface mount tail, crimp tail, solder-cup tail, swage tail or no tail.

Inside every Mill-Max receptacle is a contact clip. A contact clip is a conductive, multi-finger, progressive-die stamping that engages, scores and holds the mated pin, making an electrical and gas-tight connection at 3, 4 or 6 points of contact (depending upon the selected contact).

Mill-Max currently offers 34 styles of contacts to engage pins from .008" to .102" in diameter. A convenient contact selector chart is located on page 214 showing the different specifications of each contact.



Pin receptacles can be utilized as discrete connectors for the plugging and unplugging of components on pc boards. They can be utilized individually or in random arrays where the usage is small. They can be handled and loaded manually in preparation for soldering or, with a different style shell, for press-fitting. When a customer requires volume placement of Mill-Max receptacles, socket carriers or tape and reel packaging are tremendous labor-saving solutions for our customer.

In addition to the products found on the following pages, Mill-Max offers the following stock materials and diameters available for manufacture:

BRASS Alloy 360, 1/2 hard: .062/.072/.078/.093/.125/.156/.187/.250 diameters

BRASS Alloy 360, 1/4 hard: .072/.078 diameters

BRASS TUBING: .072 O.D.x.020 I.D./ .072 O.D.x.025 I.D.

PHOSPHOR BRONZE Alloy 544 .062/.072/.078 diameters

TELLURIUM COPPER Alloy 145 .079/.093/.125/.156 diameters

Mill-Max will gladly quote application specific products. Please complete the specification sheet on page 213 or send us your own drawings. We assure you of a fast response.

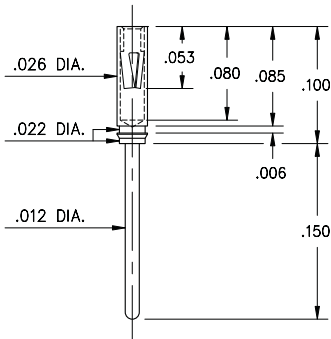




**PIN RECEPTACLES**  
 for .008" - .013" diameter pins (#04 contact)  
 and .012" - .017" diameter pins (#10 contact)  
 (see specific contact range on page 216)

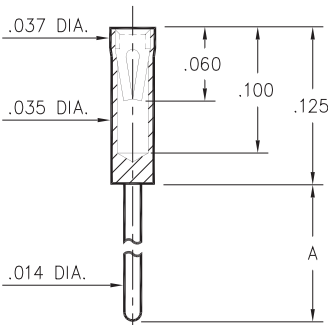


**8210**



**8210-0-15-15-04-27-04-0**  
 Press-fit in .024/.027 stepped hole

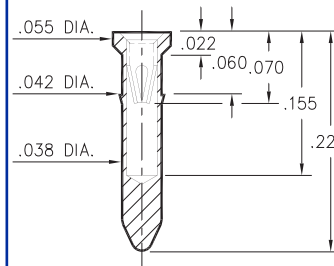
**0464**



Basic Part Number	Length A
0464-0	.125
0464-1	.250

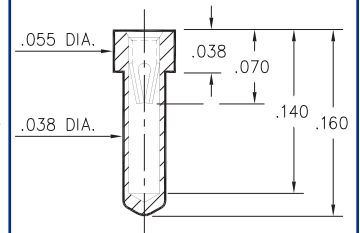
**0464-X-15-XX-10-XX-04-0**  
 Solder mount in .016 min. mounting hole

**9225**



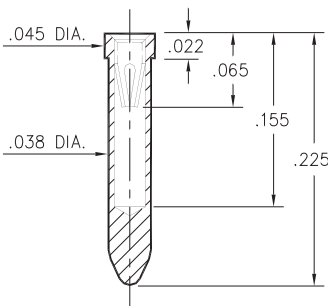
**9225-0-15-XX-10-XX-10-0**  
 Press-fit in .039 mounting hole

**0529**



**0529-0-15-XX-10-XX-10-0**  
 .040 min. mounting hole

**8947**



**8947-0-15-XX-10-XX-10-0**  
 Solder mount in .040 min. mounting hole

**SPECIFICATIONS**

**SHELL MATERIAL:**  
 Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
 Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
 LENGTHS: ±.005  
 DIAMETERS: ±.002  
 ANGLES: ± 2°

**ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**

- 02 100μ" TIN/LEAD OVER NICKEL
- ◇ 84 100μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

**SELECT CONTACT**

**#04 or #10 CONTACT (DATA ON PAGE 216)**  
 (CONTACTS #04 & #10 NOT INTERCHANGEABLE)

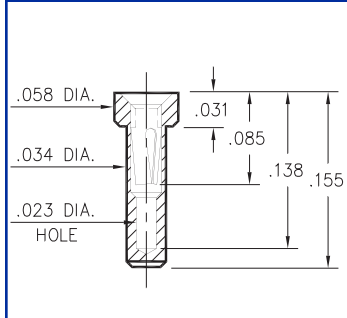




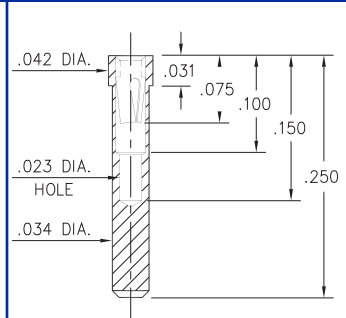
**PIN RECEPTACLES**  
 for .015" - .020" diameter pins (#11 contact)  
 and .015" - .022" diameter pins (#21 contact)  
 (see specific contact range on page 217)



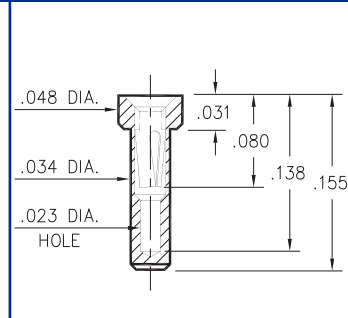
**0548                      8975                      3016                      9548**



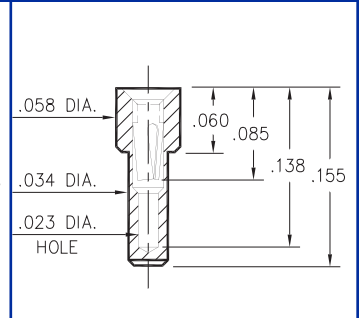
**0548-0-15-XX-21-XX-10-0**  
 Solder mount in .036 min. mounting hole



**8975-0-15-XX-21-XX-10-0**  
 Solder mount in .036 min. mounting hole

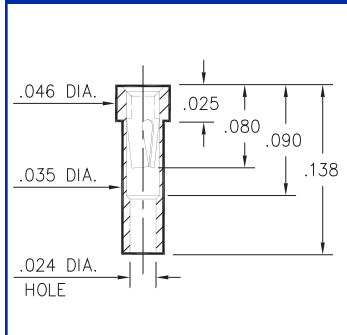


**3016-0-15-XX-21-XX-10-0**  
 Solder mount in .036 min. mounting hole

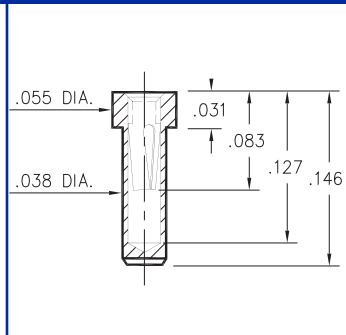


**9548-0-15-XX-21-XX-10-0**  
 Solder mount in .036 min. mounting hole

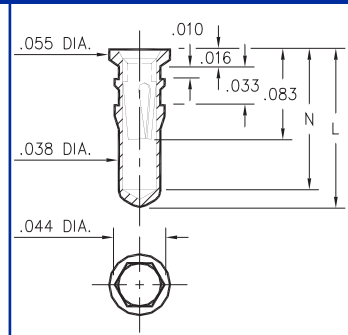
**8637                      1407                      0553/8553**



**8637-0-15-XX-21-XX-10-0**  
 Solder mount in .037 min. mounting hole



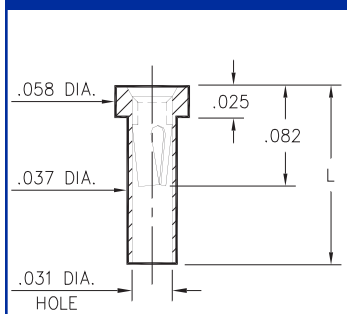
**1407-0-15-XX-11-XX-10-0**  
 Solder mount in .040 min. mounting hole



**X553-X-15-XX-X1-XX-10-0**  
 Hex press-fit in .041 plated thru hole

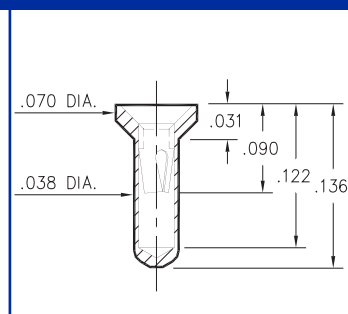
Basic Part Number	Length L	Depth N
0553-1	.140	.124
0553-2	.170	.154
0553-3	.282	.266
8553-0	.245	.229

**0566                      0442                      0554**

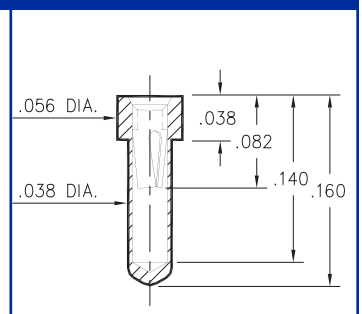


**0566-X-15-XX-21-XX-10-0**  
 Solder mount in .039 min. mounting hole

Basic Part Number	Length L
0566-1	.083
0566-2	.138



**0442-0-15-XX-11-XX-10-0**  
 Solder mount in .040 min. mounting hole



**0554-0-15-XX-21-XX-10-0**  
 Solder mount in .040 min. mounting hole

**SPECIFICATIONS**

**SHELL MATERIAL:**  
 Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
 Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
 LENGTHS: ±.005  
 DIAMETERS: ±.002  
 ANGLES: ± 2°

**ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0**

**BASIC PART #** →

**SPECIFY SHELL FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**

- 02 100μ" TIN/LEAD OVER NICKEL
- ◇ 84 100μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

**SELECT CONTACT**  
 #11 or #21 CONTACT (DATA ON PAGE 217)

Downloaded from Arrow.com

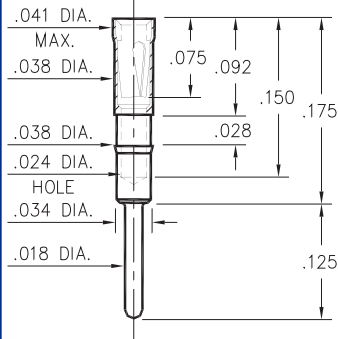


# PIN RECEPTACLES

for .015" - .018" diameter pins (#09 contact)  
 for .015" - .020" diameter pins (#11 contact)  
 and .015" - .022" diameter pins (#21 contact)  
 (see specific contact range on pages 216 & 217)

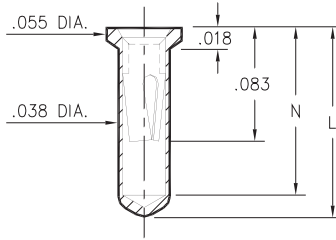


## 0467



**0467-0-15-XX-21-XX-04-0**  
 Press-fit in .037 mounting hole

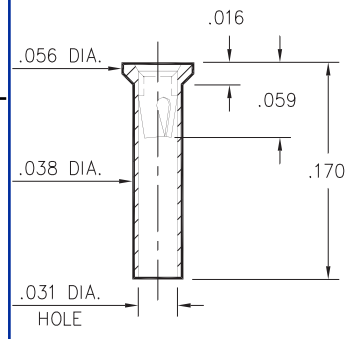
## 0552



**0552-X-15-XX-X1-XX-10-0**  
 Solder mount in .040 min. mounting hole  
 Also available on 16mm wide carrier  
 tape: 1,500 parts per 13" reel.  
 Order as: 0552-X-57-XX-X1-XX-10-0

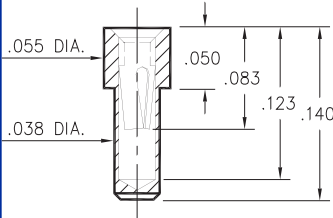
Basic Part Number	Length L	Depth N
0552-1	.136	.120
0552-2	.170	.150

## 5522



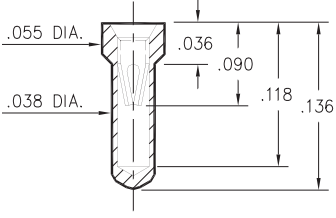
**5522-0-15-XX-09-XX-10-0**  
 Solder mount in .040 min. mounting hole

## 0569



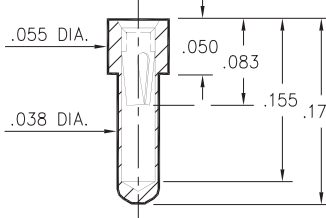
**0569-0-15-XX-X1-XX-10-0**  
 Solder mount in .040 min mounting hole

## 6023



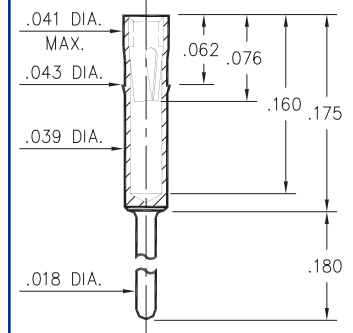
**6023-0-15-XX-21-XX-10-0**  
 Solder mount in .040 min mounting hole

## 6214



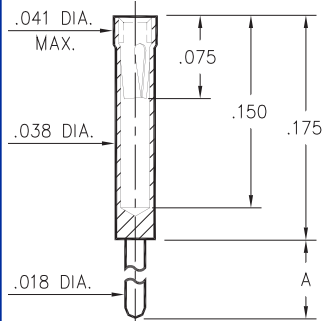
**6214-0-15-XX-21-XX-10-0**  
 Solder mount in .040 min mounting hole

## 2086



**2086-0-15-XX-21-XX-04-0**  
 Press-fit in .040 mounting hole

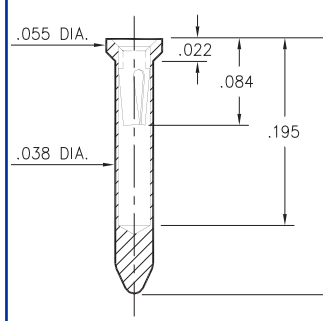
## 0461



**0461-X-15-XX-X1-XX-04-0**  
 Solder mount in .020 min. mounting hole

Basic Part Number	Length A
0461-0	.400
0461-1	.275
0461-2	.180
0461-3	.125
0461-4	.060
0461-5	.440

## 8579



**8579-0-15-XX-X1-XX-10-0**  
 Solder mount in .040 min mounting hole

Basic Part Number	Length L
8579-0	.234
8579-1	.295

### SPECIFICATIONS

**SHELL MATERIAL:**  
 Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
 Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
 LENGTHS: ±.005  
 DIAMETERS: ±.002  
 ANGLES: ± 2°

ORDER CODE: **XXXX - X - 15 - XX - XX - XX - XX - 0**

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100μ" TIN/LEAD OVER NICKEL
- ◇ 84 100μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)



SELECT CONTACT

#09, #11 or #21 CONTACT (DATA ON PAGE 217)



**PIN RECEPTACLES**  
 for .015" - .020" diameter pins (#11 contact)  
 and .015" - .022" diameter pins (#21 contact)  
 (see specific contact range on page 217)



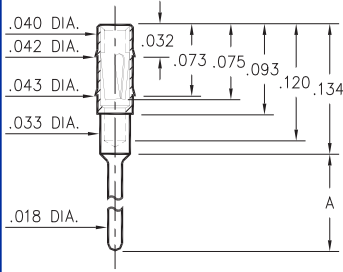
<p align="center"><b>8467</b></p> <p align="center"><b>8467-0-15-XX-21-XX-04-0</b> Hex press-fit in .036 plated thru hole</p>	<p align="center"><b>6192</b></p> <p align="center"><b>6192-0-15-XX-21-XX-04-0</b> Square press-fit in .032 plated thru hole</p>	<p align="center"><b>9553</b></p> <p align="center"><b>9553-0-15-XX-X1-XX-04-0</b> Hex press-fit in .041 plated thru hole</p>	<p align="center"><b>5531</b></p> <p align="center"><b>5531-0-15-XX-21-XX-10-0</b> Hex press-fit in .041 plated thru hole</p>
<p align="center"><b>7553</b></p> <p align="center"><b>7553-0-15-XX-11-XX-10-0</b> Hex press-fit in .041 plated thru hole</p>	<p align="center"><b>9407</b></p> <p align="center"><b>9407-0-15-XX-11-XX-10-0</b> Solder mount in .040 min. mounting hole</p>	<p align="center"><b>9462</b></p> <p align="center"><b>9462-0-15-XX-21-XX-04-0</b> Hex press-fit in .043 plated thru hole</p>	<p align="center"><b>1147</b></p> <p align="center"><b>1147-0-18-XX-21-XX-10-0</b> Press-fit in .043 min. mounting hole</p>
<p align="center"><b>3061</b></p> <p align="center"><b>3061-0-19-XX-21-XX-10-0</b> Wire Termination</p>	<p align="center"><b>0579</b></p> <p align="center"><b>0579-0-15-XX-X1-XX-10-0</b> Press-fit in .040 mounting hole</p>	<p align="center"><b>8874</b></p> <p align="center"><b>8874-0-15-XX-11-XX-10-0</b> Bottom entry Surface mount</p>	<p align="center"><b>0613</b></p> <p align="center"><b>0613-0-15-XX-21-XX-10-0</b> Press-fit in .047 mounting hole</p>
<p align="center"><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b>  <b>TOLERANCES ON:</b>      LENGTHS: ±.005      DIAMETERS: ±.002      ANGLES: ± 2°</p>	<p align="center"><b>ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>02 100μ" TIN/LEAD OVER NICKEL</li> <li>◇ 84 100μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p align="center"><b>SELECT CONTACT</b>      #11 or #21 CONTACT (DATA ON PAGE 217)</p> <p align="center"></p>		



**PIN RECEPTACLES**  
 for .015" - .020" diameter pins (#11 contact)  
 and .015" - .022" diameter pins (#05 & #21 contacts)  
 (see specific contact range on page 217)



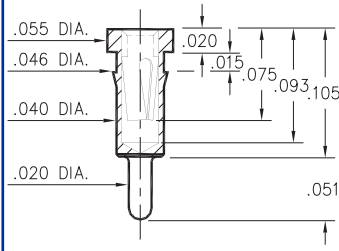
**0489**



Basic Part Number	Length A
0489-0	.102
0489-1	.199
0489-2	.299

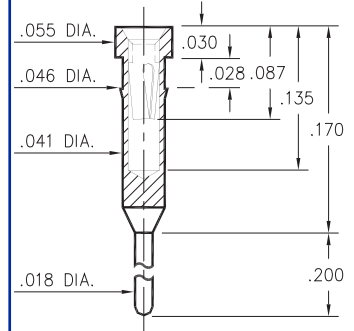
**0489-X-15-XX-11-XX-04-0**  
 Press-fit in .041 mounting hole.

**0463**



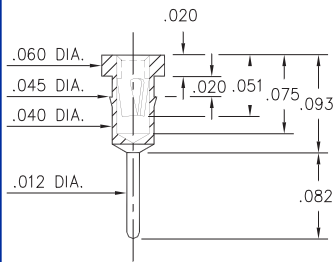
**0463-0-15-XX-21-XX-04-0**  
 Press-fit in .043 mounting hole.  
 shell is Phos. Br. Alloy 544 (B2)

**0466**



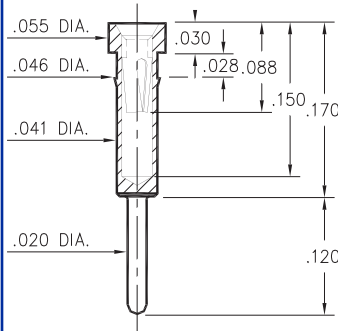
**0466-0-15-XX-21-XX-04-0**  
 Press-fit in .043 mounting hole.  
 shell is Phos. Br. Alloy 544 (B2)

**7491**



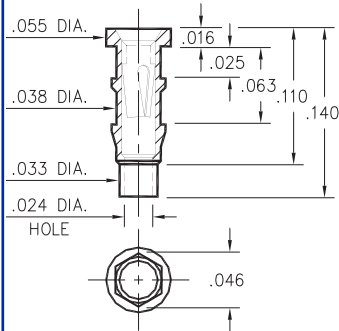
**7491-0-15-XX-X1-XX-04-0**  
 Press-fit in .042 mounting hole

**0462**



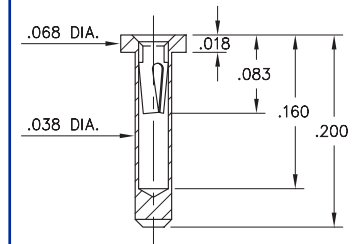
**0462-0-15-XX-X1-XX-04-0**  
 Press-fit in .043 mounting hole

**0560**



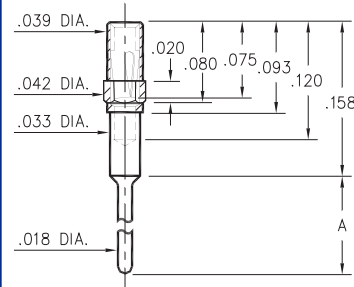
**0560-0-15-XX-11-XX-10-0**  
 Hex press-fit in .043 plated thru hole

**5552**



**5552-0-15-XX-05-XX-10-0**  
 Solder mount in .040 min. mounting hole

**4890**



Basic Part Number	Length A
4890-0	.102
4890-1	.199
4890-2	.299

**4890-X-15-XX-11-XX-04-0**  
 Octagonal press-fit in .041 mounting hole.

**SPECIFICATIONS**

**SHELL MATERIAL:**  
 Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
 Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
 LENGTHS: ±.005  
 DIAMETERS: ±.002  
 ANGLES: ± 2°

**ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**  
 01 200µ" TIN/LEAD OVER NICKEL  
 ◇ 80 200µ" TIN OVER NICKEL (RoHS)  
 ◇ 15 10µ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**  
 02 100µ" TIN/LEAD OVER NICKEL  
 ◇ 84 100µ" TIN OVER NICKEL (RoHS)  
 ◇ 27 30µ" GOLD OVER NICKEL (RoHS)



**SELECT CONTACT**

#05, #11 or #21 CONTACT (DATA ON PAGE 217)

<p><b>0512</b></p> <p><b>0512-0-15-XX-12-XX-04-0</b> Press-fit in .057 mounting hole</p>	<p><b>0703</b></p> <p><b>0703-0-15-XX-12-XX-04-0</b> Press-fit in .057 mounting hole</p>	<p><b>0574</b></p> <p><b>0574-0-15-XX-12-XX-04-0</b> Press-fit in .057 mounting hole</p>
--	--	--

<p><b>0468</b></p> <p><b>0468-0-15-XX-12-XX-04-0</b> Press-fit in .057 mounting hole</p>	<p><b>0550</b></p> <p><b>0550-0-15-XX-22-XX-10-0</b> Solder mount in .052 min. mounting hole</p>	<p><b>0671</b></p> <p><b>0671-0-15-XX-12-XX-10-0</b> Solder mount in .063 min. mounting hole</p>	<p><b>0707</b></p> <p><b>0707-0-15-XX-12-XX-10-0</b> Solder mount in .051 min. mounting hole</p>
--	--	--	--

<p><b>5739</b></p> <p><b>5739-0-18-XX-12-XX-10-0</b> Surface mount Also available on 16mm wide carrier tape: 3,000 parts per 13" reel. Order as: 5739-0-58-XX-12-XX-10-0</p>	<p><b>8894</b></p> <p><b>8894-0-15-XX-12-XX-10-0</b> Hex press-fit in .059 plated thru hole</p>	<p><b>1534</b></p> <p><b>1534-0-15-XX-12-XX-04-0</b> Press-fit in .056 mounting hole</p>
--	---	--

<p><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>02 100μ" TIN/LEAD OVER NICKEL</li> <li>◇ 84 100μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SELECT CONTACT</b> #12 or #22 CONTACT (DATA ON PAGE 218)</p>
---	---

<h3>0501</h3> <p><b>0501-0-15-XX-30-XX-04-0</b> Press-fit in .057 mounting hole</p>	<h3>8427</h3> <p><b>8427-0-15-XX-30-XX-04-0</b> Press-fit in .057 mounting hole</p>	<h3>1434</h3> <p><b>1434-0-15-XX-30-XX-10-0</b> Press-fit in .055 mounting hole</p>	<h3>9970</h3> <p><b>9970-0-15-XX-30-XX-04-0</b> Square press-fit for .032 ±.002 plated thru hole</p>
---	---	---	--

<h3>5970</h3> <p><b>5970-X-15-XX-32-XX-04-0</b> Square press-fit for .032 or .039 ±.002 plated thru hole</p>	<table border="1"> <thead> <tr> <th>Basic Part Number</th> <th>U Square</th> <th>Mounting Hole</th> </tr> </thead> <tbody> <tr> <td>5970-1</td> <td>.028</td> <td>.032</td> </tr> <tr> <td>5970-2</td> <td>.034</td> <td>.039</td> </tr> </tbody> </table>	Basic Part Number	U Square	Mounting Hole	5970-1	.028	.032	5970-2	.034	.039	<h3>0477/0478</h3> <p><b>047X-0-18-XX-30-XX-04-0</b> Solderless press-fit in .038 +.003 / -.002 plated thru hole (use 1.1mm drill prior to plating)</p>	<table border="1"> <thead> <tr> <th>Basic Part Number</th> <th>Board Thickness</th> <th>Length V</th> <th>Length A</th> </tr> </thead> <tbody> <tr> <td>0477-0</td> <td>.062</td> <td>.075</td> <td>.175</td> </tr> <tr> <td>0478-0</td> <td>.125</td> <td>.140</td> <td>.250</td> </tr> </tbody> </table>	Basic Part Number	Board Thickness	Length V	Length A	0477-0	.062	.075	.175	0478-0	.125	.140	.250
Basic Part Number	U Square	Mounting Hole																						
5970-1	.028	.032																						
5970-2	.034	.039																						
Basic Part Number	Board Thickness	Length V	Length A																					
0477-0	.062	.075	.175																					
0478-0	.125	.140	.250																					

<h3>4612</h3> <p><b>4612-0-31-XX-30-XX-04-0</b> Compliant press-fit in .040 ±.003 plated hole. For .060 → .100 thick board</p>	<h3>4613</h3> <p><b>4613-0-31-XX-30-XX-04-0</b> Compliant press-fit in .040 ±.003 plated hole. For .090 → .130 thick board</p>	<h3>0680</h3> <p><b>0680-0-15-XX-32-XX-10-0</b> Solder mount in .051 min. mounting hole</p>	<h3>0149</h3> <p><b>0149-0-15-XX-30-XX-04-0</b> Press-fit in .059 mounting hole</p>
--	--	---	---

<h3>SPECIFICATIONS</h3> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - XX - XX - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>02 100μ" TIN/LEAD OVER NICKEL</li> <li>◇ 84 100μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SELECT CONTACT</b> #30 or #32 CONTACT (DATA ON PAGES 218 &amp; 219)</p>
---	---



Downloaded from Arrow.com

0660	0677	0555	0558
<p><b>0660-0-15-XX-30-XX-10-0</b> Solder mount in .051 min. mounting hole</p>	<p><b>0677-0-15-XX-30-XX-10-0</b> Solder mount in .051 min. mounting hole</p>	<p><b>0555-0-15-XX-20-XX-10-0</b> Solder mount in .053 min. mounting hole</p>	<p><b>0558-0-15-XX-30-XX-10-0</b> Solder mount in .061 min. mounting hole</p>

0675/0679	1065/1066/7065														
<table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Basic Part Number</th> <th>Length L</th> </tr> </thead> <tbody> <tr> <td>0675-0</td> <td>.145</td> </tr> <tr> <td>0679-0</td> <td>.203</td> </tr> </tbody> </table>	Basic Part Number	Length L	0675-0	.145	0679-0	.203	<table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Basic Part Number</th> <th>Length L</th> </tr> </thead> <tbody> <tr> <td>1065-0</td> <td>.190</td> </tr> <tr> <td>1066-0</td> <td>.160</td> </tr> <tr> <td>7065-0</td> <td>.181</td> </tr> </tbody> </table>	Basic Part Number	Length L	1065-0	.190	1066-0	.160	7065-0	.181
Basic Part Number	Length L														
0675-0	.145														
0679-0	.203														
Basic Part Number	Length L														
1065-0	.190														
1066-0	.160														
7065-0	.181														
<p><b>067X-0-15-XX-30-XX-10-0</b> Solder mount in .054 min. mounting hole</p>	<p><b>X06X-0-15-XX-30-XX-10-0</b> Solder mount in .055 min. mounting hole</p>														

0682	0667	0665	4286
<p><b>0682-0-15-XX-32-XX-10-0</b> Solder mount in .056 min. mounting hole</p>	<p><b>0667-0-15-XX-30-XX-10-0</b> Solder mount in .057 min. mounting hole</p>	<p><b>0665-0-15-XX-30-XX-10-0</b> Solder mount in .061 min. mounting hole</p>	<p><b>4286-0-15-XX-30-XX-10-0</b> Hex press-fit in .055 plated thru hole</p>

<p><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ±.002°</p>	<p><b>ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>02 100μ" TIN/LEAD OVER NICKEL</li> <li>◇ 84 100μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SELECT CONTACT</b></p> <p>#30 or #32 CONTACT (DATA ON PAGES 218 &amp; 219)</p>
--	---

Downloaded from [Arrow.com](http://Arrow.com)



<b>0669</b>	<b>0670</b>	<b>0673</b>	<b>0666</b>
<b>0669-0-15-XX-30-XX-10-0</b> Solder mount in .060 min. mounting hole	<b>0670-0-15-XX-30-XX-10-0</b> Solder mount in .060 min. mounting hole	<b>0673-0-15-XX-30-XX-10-0</b> Surface Mount	<b>0666-0-15-XX-32-XX-10-0</b> Solder mount in .064 min. mounting hole Also available on 24mm wide carrier tape: 1,500 parts per 13" reel. Order as: 0666-0-57-XX-32-XX-10-0

<b>0341</b>	<b>0252</b>	<b>0678</b>	<b>0676</b>
<b>0341-0-15-XX-30-XX-10-0</b> Solder mount in .073 mounting hole	<b>0252-0-15-XX-32-XX-10-0</b> Hex press-fit in .057 plated thru hole	<b>0678-0-15-XX-32-XX-10-0</b> Press-fit in .057 mounting hole	<b>0676-0-15-XX-30-XX-10-0</b> Press-fit in .057 mounting hole

<b>0697</b>	<b>0668</b>	<b>0253/1033</b>										
			<table border="1"> <thead> <tr> <th>Basic Part Number</th> <th>Length L</th> <th>Depth N</th> </tr> </thead> <tbody> <tr> <td>0253-0</td> <td>.173</td> <td>.148</td> </tr> <tr> <td>1033-0</td> <td>.203</td> <td>.162</td> </tr> </tbody> </table>	Basic Part Number	Length L	Depth N	0253-0	.173	.148	1033-0	.203	.162
Basic Part Number	Length L	Depth N										
0253-0	.173	.148										
1033-0	.203	.162										
<b>0697-0-15-XX-30-XX-10-0</b> Press-fit in .057 mounting hole	<b>0668-0-15-XX-30-XX-10-0</b> Press-fit in .057 mounting hole	<b>XXX3-0-15-XX-30-XX-10-0</b> Press-fit in .057 mounting hole										

<p><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>02 100μ" TIN/LEAD OVER NICKEL</li> <li>◇ 84 100μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SELECT CONTACT</b></p> <p>#30 or #32 CONTACT (DATA ON PAGES 218 &amp; 219)</p>

Downloaded from [Arrow.com](http://Arrow.com)

<h3>4011</h3> <p><b>4011-0-15-XX-30-XX-04-0</b> Press-fit in .057 mounting hole</p>	<h3>1801</h3> <p><b>1801-0-15-XX-30-XX-04-0</b> Press-fit in .057 mounting hole Shell is Ph. Br. Alloy 544 (B2)</p>	<h3>1001</h3> <p><b>1001-0-15-XX-3X-XX-04-0</b> Press-fit in .057 mounting hole</p>	<h3>0156</h3> <p><b>0156-0-18-XX-30-XX-04-0</b> Self-retention socket pin .038-.043 hole prior to soldering</p>
---	---	---	---

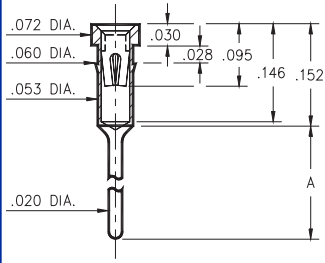
<h3>0255</h3> <p><b>0255-0-15-XX-30-XX-04-0</b> Solder mount in .022 min. mounting hole</p>	<h3>1109</h3> <p><b>1109-0-15-XX-30-XX-04-0</b> Hex press-fit in .057 plated thru hole</p>	<h3>3013</h3> <p><b>3013-0-15-XX-32-XX-04-0</b> Press-fit in .057 mounting hole</p>	<h3>0134</h3> <p><b>0134-0-15-XX-3X-XX-04-0</b> Press-fit in .057 mounting hole</p>
---	--	---	---

<h3>0132/0135</h3> <p><b>013X-0-15-XX-30-XX-04-0</b> Press-fit in .057 mounting hole</p>	<table border="1"> <thead> <tr> <th>Basic Part Number</th> <th>Length A</th> </tr> </thead> <tbody> <tr> <td>0132-0</td> <td>.273</td> </tr> <tr> <td>0135-0</td> <td>.183</td> </tr> </tbody> </table>	Basic Part Number	Length A	0132-0	.273	0135-0	.183	<h3>0133/0147</h3> <p><b>01XX-0-15-XX-30-XX-04-0</b> Press-fit in .059 mounting hole</p>	<table border="1"> <thead> <tr> <th>Basic Part Number</th> <th>Length A</th> </tr> </thead> <tbody> <tr> <td>0133-0</td> <td>.382</td> </tr> <tr> <td>0147-0</td> <td>.563</td> </tr> </tbody> </table>	Basic Part Number	Length A	0133-0	.382	0147-0	.563
Basic Part Number	Length A														
0132-0	.273														
0135-0	.183														
Basic Part Number	Length A														
0133-0	.382														
0147-0	.563														

<h3>SPECIFICATIONS</h3> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - 1X - XX - XX - XX - 04 - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>02 100μ" TIN/LEAD OVER NICKEL</li> <li>◇ 84 100μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SELECT CONTACT</b></p> <p>#30 or #32 CONTACT (DATA ON PAGES 218 &amp; 219)</p>
--	---



### 1005/1013/8898

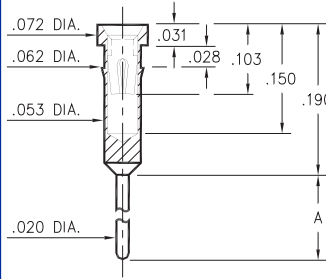


Basic Part Number	Length A
1005-0	.138
1013-0	.165
8898-0	.224

NOTE: 8898 is not annealed & not suitable for auto-clinching

**XXXX-0-15-XX-3X-XX-04-0**  
Press-fit in .057 mounting hole  
1/4 hard brass shell for auto-clinching

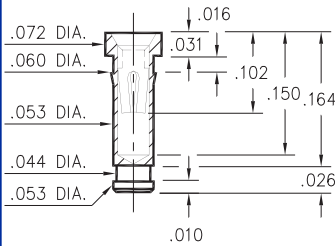
### 0145/0146



Basic Part Number	Length A
0145-0	.300
0146-0	.410

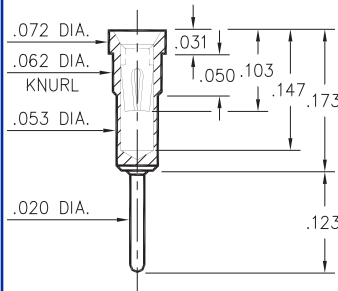
**014X-0-15-XX-30-XX-04-0**  
Press-fit in .059 mounting hole

### 4378



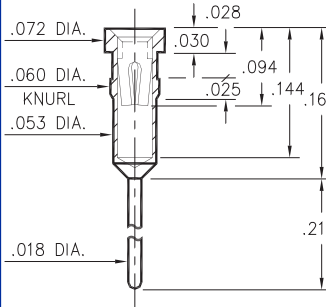
**4378-0-15-XX-30-XX-10-0**  
Press-fit in .057 mounting hole

### 0556



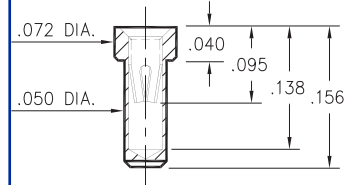
**0556-0-15-XX-30-XX-04-0**  
Press-fit in .059 mounting hole

### 1103



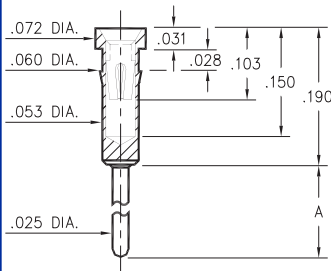
**1103-0-15-XX-30-XX-04-0**  
Press-fit in .057 mounting hole

### 9234



**9234-0-15-XX-30-XX-10-0**  
Solder mount in .052 min. mounting hole

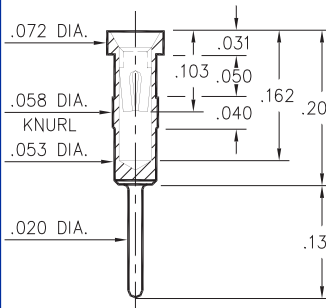
### 0136/37/38/39/41/48/52



Basic Part Number	Length A
0136-0	1.215
0137-0	.560
0138-0	.210
0139-0	.635
0141-0	.700
0148-0	.455
0152-0	.410

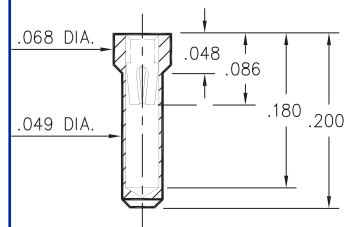
**01XX-0-15-XX-30-XX-04-0**  
Press-fit in .057 mounting hole

### 0447



**0447-0-15-XX-30-XX-04-0**  
Press-fit in .056 mounting hole

### 5660



**5660-0-15-XX-30-XX-10-0**  
Solder mount in .051 min. mounting hole

## SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

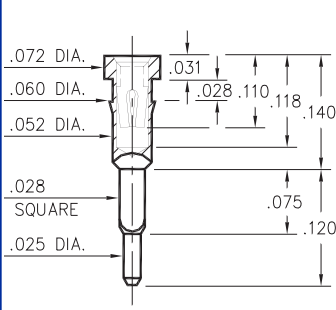
**SPECIFY CONTACT FINISH:**  
02 100μ" TIN/LEAD OVER NICKEL  
◇ 84 100μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



**SELECT CONTACT**

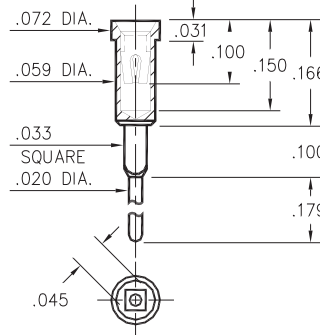
#30 or #32 CONTACT (DATA ON PAGES 218 & 219)

### 7132



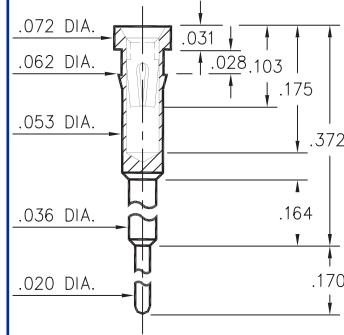
**7132-0-15-XX-30-XX-04-0**  
Square press-fit for .032 ±.002 plated thru hole

### 8445



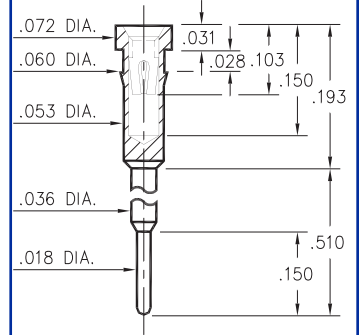
**8445-0-15-XX-30-XX-04-0**  
Square press-fit for .039 ±.002 plated thru hole

### 1038



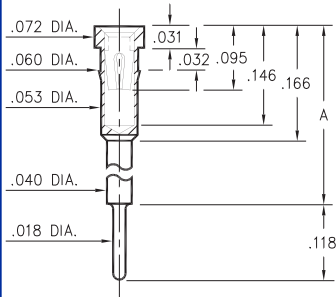
**1038-0-15-XX-30-XX-04-0**  
Press-fit in .059 mounting hole

### 1261



**1261-0-15-XX-30-XX-04-0**  
Press-fit in .057 mounting hole

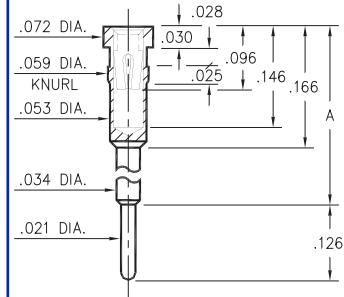
### 0153



**0153-X-15-XX-30-XX-04-0**  
Press-fit in .057 mounting hole

Basic Part Number	Height A
0153-1	.236
0153-2	.315
0153-3	.402
0153-4	.472
0153-5	.594
0153-6	.699

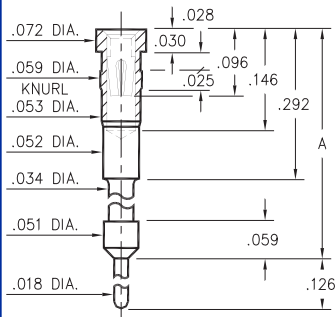
### 1602/1610



**16XX-0-15-XX-30-XX-04-0**  
Press-fit in .057 mounting hole

Basic Part Number	Height A
1602-0	.441
1610-0	.642

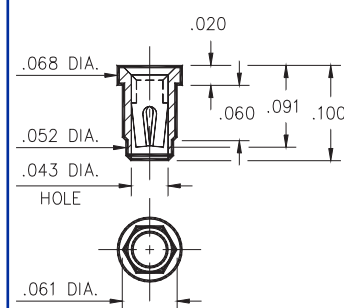
### 0903/0904



**090X-0-15-XX-30-XX-04-0**  
Press-fit in .057 mounting hole

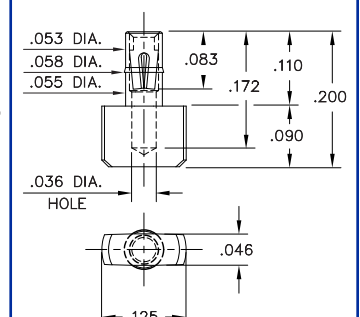
Basic Part Number	Height A
0903-0	.841
0904-0	1.141

### 8252



**8252-0-15-XX-30-XX-10-0**  
Press-fit in .057 plated thru hole

### 4078



**4078-0-15-XX-30-XX-40-0**  
Press-fit in .057 mounting hole

## SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 15 - XX - 30 - XX - XX - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**  
02 100μ" TIN/LEAD OVER NICKEL  
◇ 84 100μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



**CONTACT**

#30 CONTACT (DATA ON PAGES 218)

<h3>1707</h3> <p><b>1707-0-19-XX-30-XX-10-0</b> Press-fit in .061 mounting hole</p>	<h3>0240</h3> <p><b>0240-0-15-XX-30-XX-04-0</b> Press-fit in .059 mounting hole</p>	<h3>0307</h3> <p><b>0307-0-15-XX-30-XX-04-0</b> Press-fit in .059 mounting hole</p>	<h3>1753</h3> <p><b>1753-0-15-XX-30-XX-04-0</b> Press-fit in .057 mounting hole</p>
---	---	---	---

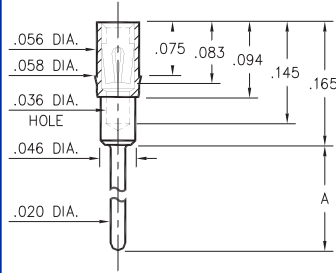
<h3>1705/1706/1762</h3> <p><b>17XX-0-15-XX-3X-XX-04-0</b> Press-fit in .057 mounting hole</p>	<table border="1"> <thead> <tr> <th>Basic Part Number</th> <th>Height A</th> </tr> </thead> <tbody> <tr> <td>1705-0</td> <td>.165</td> </tr> <tr> <td>1706-0</td> <td>.218</td> </tr> <tr> <td>1762-0</td> <td>.300</td> </tr> </tbody> </table>	Basic Part Number	Height A	1705-0	.165	1706-0	.218	1762-0	.300	<h3>0672</h3> <p><b>0672-X-15-XX-30-XX-10-0</b> Swage mount in .049 hole</p>	<table border="1"> <thead> <tr> <th>Basic Part Number</th> <th>Board Thickness</th> <th>Length V</th> </tr> </thead> <tbody> <tr> <td>0672-1</td> <td>.031</td> <td>.052</td> </tr> <tr> <td>0672-2</td> <td>.062</td> <td>.084</td> </tr> <tr> <td>0672-3</td> <td>.094</td> <td>.115</td> </tr> <tr> <td>0672-4</td> <td>.125</td> <td>.146</td> </tr> </tbody> </table>	Basic Part Number	Board Thickness	Length V	0672-1	.031	.052	0672-2	.062	.084	0672-3	.094	.115	0672-4	.125	.146
Basic Part Number	Height A																									
1705-0	.165																									
1706-0	.218																									
1762-0	.300																									
Basic Part Number	Board Thickness	Length V																								
0672-1	.031	.052																								
0672-2	.062	.084																								
0672-3	.094	.115																								
0672-4	.125	.146																								

<h3>1024/1104</h3> <p><b>1XX4-0-18-XX-30-XX-10-0</b> Press-fit in .059 mounting hole</p>	<table border="1"> <thead> <tr> <th>Basic Part Number</th> <th>Length L</th> </tr> </thead> <tbody> <tr> <td>1024-0</td> <td>.290</td> </tr> <tr> <td>1104-0</td> <td>.450</td> </tr> </tbody> </table>	Basic Part Number	Length L	1024-0	.290	1104-0	.450	<h3>0498</h3> <p><b>0498-0-15-XX-35-XX-04-0</b> Press-fit in .057 mounting hole</p>	<h3>8131</h3> <p><b>8131-0-15-XX-30-XX-10-0</b> Press-fit in .057 mounting hole</p>
Basic Part Number	Length L								
1024-0	.290								
1104-0	.450								

<h3>SPECIFICATIONS</h3> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>02 100μ" TIN/LEAD OVER NICKEL</li> <li>◇ 84 100μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SELECT CONTACT</b> #30 or #35 CONTACT (DATA ON PAGES 218 &amp; 219)</p>
---	--



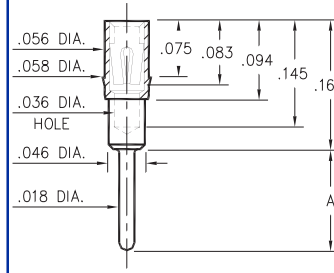
### 1802/3802/4030/8866



Basic Part Number	Length A
1802-0	.125
3802-0	.165
8866-0	.775
4030-0	.815

**XXXX-0-15-XX-43-XX-04-0**  
Press-fit in .057 mounting hole

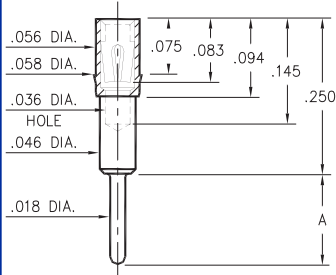
### 1803/1805



Basic Part Number	Length A
1803-0	.145
1805-0	.213

**180X-0-15-XX-43-XX-04-0**  
Press-fit in .057 mounting hole

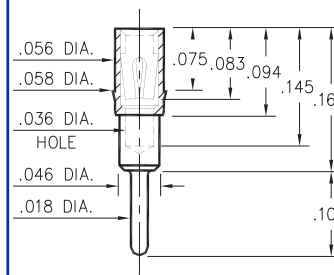
### 1804/1806



Basic Part Number	Length A
1804-0	.080
1806-0	.115

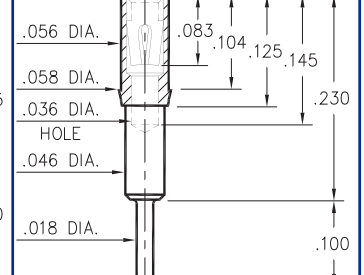
**180X-0-15-XX-43-XX-04-0**  
Press-fit in .057 mounting hole

### 1808



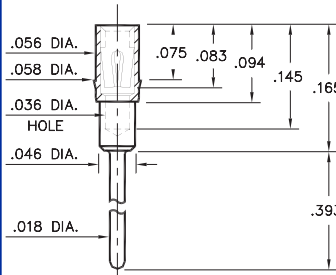
**1808-0-15-XX-43-XX-04-0**  
Press-fit in .057 mounting hole

### 1807



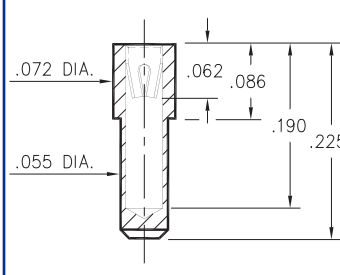
**1807-0-15-XX-43-XX-04-0**  
Press-fit in .057 mounting hole

### 3805



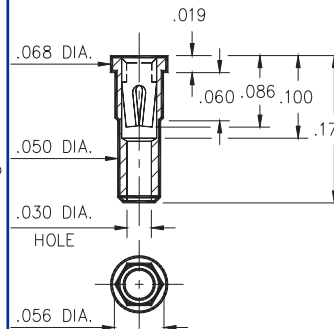
**3805-0-15-XX-43-XX-04-0**  
Press-fit in .057 mounting hole

### 8830



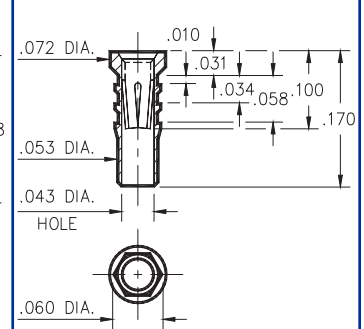
**8830-0-15-XX-22-XX-10-0**  
Solder mount in .057 min. mounting hole

### 4622



**4622-0-15-XX-30-XX-10-0**  
Hex press-fit in .053 plated thru hole

### 6252



**6252-0-15-XX-32-XX-10-0**  
Hex press-fit in .057 plated thru hole

## SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**  
02 100μ" TIN/LEAD OVER NICKEL  
◇ 84 100μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



**SELECT CONTACT**

#22, #30, #32 or #43 CONTACT (DATA ON PAGES 218,219 & 220)

0385	4001	1782	5960
<p><b>0385-0-15-XX-43-XX-10-0</b> Press-fit in .046 mounting hole</p>	<p><b>4001-0-15-XX-43-XX-04-0</b> Press-fit in .057 mounting hole</p>	<p><b>1782-0-15-XX-43-XX-04-0</b> Press-fit in .045 mounting hole</p>	<p><b>5960-0-15-XX-43-XX-04-0</b> Hex press-fit in .057 plated thru hole</p>

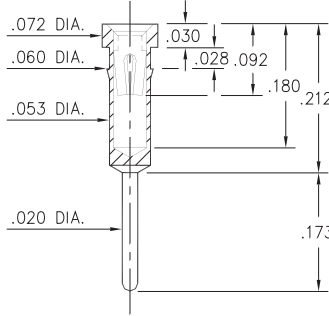
1401/3185	4310	1385									
<p><b>XXXX-0-15-XX-30-XX-10-0</b> Solder mount in .055 min. mounting hole</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Basic Part Number</th> <th>Depth N</th> <th>Length L</th> </tr> </thead> <tbody> <tr> <td>1401-0</td> <td>.145</td> <td>.165</td> </tr> <tr> <td>3185-0</td> <td>.109</td> <td>.130</td> </tr> </tbody> </table> <p><b>4310-0-31-XX-43-XX-04-0</b> Compliant press-fit in .040±.003 plated hole. For .090→.130 thick board.</p>	Basic Part Number	Depth N	Length L	1401-0	.145	.165	3185-0	.109	.130	<p><b>1385-0-15-XX-43-XX-10-0</b> Surface mount</p>
Basic Part Number	Depth N	Length L									
1401-0	.145	.165									
3185-0	.109	.130									

3018	3907	8852	8363
<p><b>3018-0-15-XX-30-XX-04-0</b> Press-fit in .057 mounting hole</p>	<p><b>3907-0-18-XX-30-XX-10-0</b> Surface mount Also available on 12mm wide carrier tape: 4,000 parts per 13" reel. Order as: 3907-0-58-XX-30-XX-10-0</p>	<p><b>8852-0-15-XX-30-XX-04-0</b> Press-fit in .056 mounting hole</p>	<p><b>8363-0-15-XX-35-XX-10-0</b> Solder mount in .057 min. mounting hole</p>

<p><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>02 100μ" TIN/LEAD OVER NICKEL</li> <li>◇ 84 100μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SELECT CONTACT</b></p> <p>#30, #35 or #43 CONTACT (DATA ON PAGES 218, 219 &amp; 220)</p>
--	---

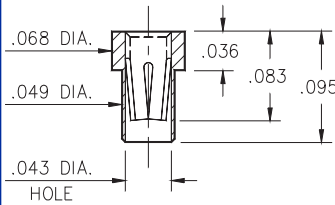


### 8964



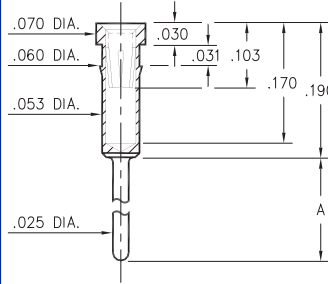
**8964-0-15-XX-30-XX-04-0**  
Press-fit in .057 mounting hole

### 5342



**5342-0-15-XX-35-XX-10-0**  
Solder mount in .051 min. mounting hole

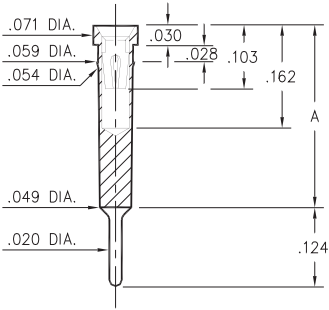
### 8857



**8857-X-15-XX-32-XX-04-0**  
Press-fit in .057 mounting hole

Basic Part Number	Length A
8857-0	.311
8857-1	.448
8857-2	.589
8857-3	.731
8857-4	.871

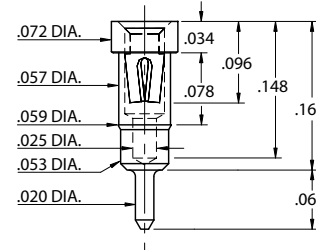
### 8862/8877



**88XX-0-15-XX-30-XX-04-0**  
Press-fit in .056 mounting hole

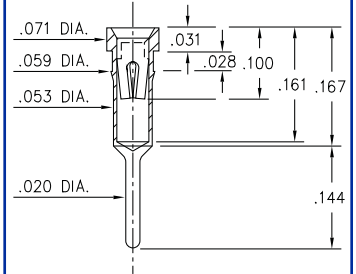
Basic Part Number	Length A
8862-0	.300
8877-0	.350

### 1334



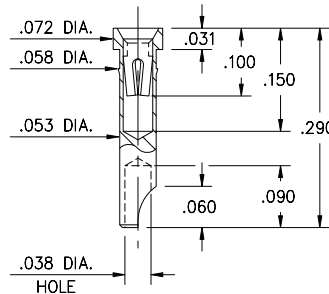
**1334-0-15-XX-30-XX-04-0**  
Press-fit in .057 mounting hole

### 8855



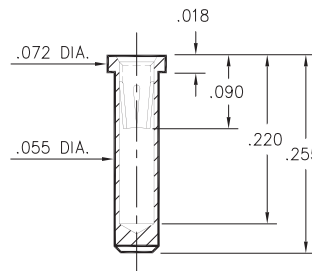
**8855-0-15-XX-30-XX-34-0**  
Press-fit in .057 mounting hole

### 2954



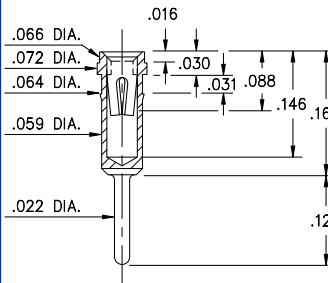
**2954-0-18-XX-30-XX-10-0**  
Press-fit in .057 mounting hole

### 9363



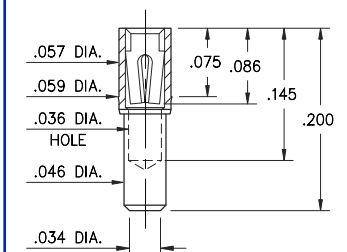
**9363-0-15-XX-35-XX-10-0**  
Solder mount in .057 min. mounting hole

### 1023



**1023-0-15-XX-30-XX-04-0**  
Press-fit in .061 mounting hole

### 1701



**1701-0-15-XX-30-XX-10-0**  
Press-fit in .057 mounting hole

## SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**  
01 200µ" TIN/LEAD OVER NICKEL  
◇ 80 200µ" TIN OVER NICKEL (RoHS)  
◇ 15 10µ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**  
02 100µ" TIN/LEAD OVER NICKEL  
◇ 84 100µ" TIN OVER NICKEL (RoHS)  
◇ 27 30µ" GOLD OVER NICKEL (RoHS)



**SELECT CONTACT**

#30, #32 or #35 CONTACT (DATA ON PAGES 218 & 219)



0338	0378	6002	7009
<p><b>0338-0-15-XX-15-XX-10-0</b> Solder mount in .057 min. mounting hole</p>	<p><b>0378-0-15-XX-15-XX-10-0</b> Solder mount in .082 min. mounting hole</p>	<p><b>6002-0-19-XX-15-XX-10-0</b> Solder mount in .059 min. mounting hole</p>	<p><b>7009-0-19-XX-15-XX-10-0</b> Press-fit in .063 mounting hole</p>

**0339**

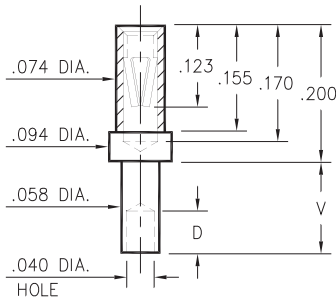
<p><b>0339-0-15-XX-15-XX-10-0</b> Solder mount in .057 min. mounting hole</p>			
---	--	--	--

--	--	--	--

<p><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: <u>XXXX - X - 1X - XX - 15 - XX - 10 - 0</u></b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b> →</p> <p>01 200μ" TIN/LEAD OVER NICKEL              ◇ 80 200μ" TIN OVER NICKEL (RoHS)              ◇ 15 10μ" GOLD OVER NICKEL (RoHS)</p> <p><b>SPECIFY CONTACT FINISH:</b> →</p> <p>01 200μ" TIN/LEAD OVER NICKEL              ◇ 80 200μ" TIN OVER NICKEL (RoHS)              ◇ 27 30μ" GOLD OVER NICKEL (RoHS)</p> <p style="text-align: center;"><b>CONTACT</b> #15 CONTACT (DATA ON PAGE 220)</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p><b>RoHS</b> 2002/95/EC</p> </div>
--	---



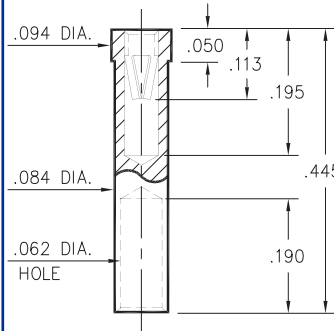
### 0326



Basic Part Number	Board Thickness	Length V	Depth D
0326-1	.031	.062	.040
0326-2	.062	.094	.062
0326-3	.094	.125	.062
0326-4	.125	.156	.062

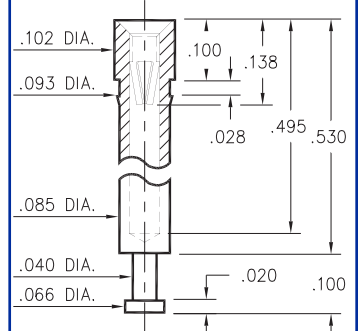
**0326-X-19-XX-06-XX-10-0**  
Swage mount in .060 hole

### 5295



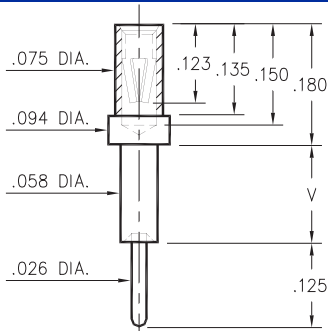
**5295-0-19-XX-06-XX-10-0**  
Solder mount in .086 min. mounting hole

### 0396



**0396-0-15-XX-06-XX-10-0**  
Press-fit in .090 mounting hole

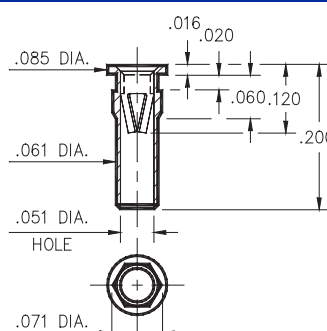
### 0298



Basic Part Number	Board Thickness	Length V
0298-1	.031	.051
0298-2	.062	.082
0298-3	.094	.113
0298-4	.125	.145

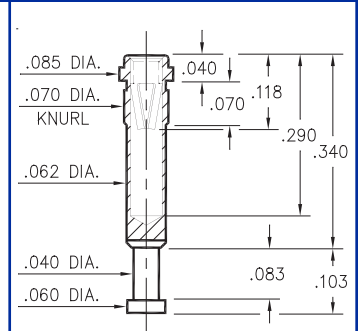
**0298-X-15-XX-06-XX-10-0**  
Swage mount in .060 hole

### 9293



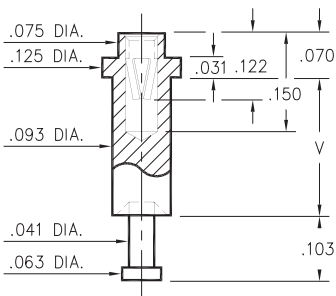
**9293-0-15-XX-06-XX-10-0**  
Hex press-fit in .067 plated thru hole

### 8864



**8864-0-15-XX-06-XX-10-0**  
Press-fit in .067 mounting hole

### 0664



Basic Part Number	Board Thickness	Length V
0664-1	.094	.125
0664-2	.125	.156
0664-3	.188	.219

**0664-X-15-XX-06-XX-10-0**  
Swage mount in .096 hole

#### SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 1X - XX - 06 - XX - 10 - 0**

**BASIC PART #** →

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



**CONTACT**

#06 CONTACT (DATA ON PAGE 220)

<p><b>0291</b></p> <p><b>0291-0-15-XX-16-XX-10-0</b> Hex press-fit in .067 plated thru hole</p>	<p><b>0293</b></p> <p><b>0293-0-15-XX-16-XX-10-0</b> Press-fit in .067 mounting hole</p>	<p><b>0287</b></p> <p><b>0287-0-15-XX-16-XX-10-0</b> Solder mount in .065 min. mounting hole Also available on 8mm wide carrier tape: 3,250 parts per 13" reel. Order as: 0287-0-57-XX-16-XX-10-0</p>	<p><b>0285</b></p> <p><b>0285-0-15-XX-16-XX-10-0</b> Solder mount in .065 min. mounting hole</p>
---	--	---	--

<p><b>0284</b></p> <p><b>0284-0-15-XX-16-XX-10-0</b> Solder mount in .070 min. mounting hole</p>	<p><b>8114</b></p> <p><b>8114-0-15-XX-16-XX-04-0</b> Press-fit from underside of pc board into .065 mounting hole</p>	<p><b>0407</b></p> <p><b>0407-0-15-XX-16-XX-04-0</b> Press-fit in .066 mounting hole</p>	<p><b>0415</b></p> <p><b>0415-0-15-XX-16-XX-10-0</b> Solder mount in .063 min. mounting hole Also available on 24mm wide carrier tape: 1,500 parts per 13" reel. Order as: 0415-0-57-XX-16-XX-10-0</p>
--	---	--	--

<p><b>0303</b></p> <p><b>0303-0-19-XX-16-XX-10-0</b> Wire Termination Press-fit in .067 mounting hole</p>	<p><b>0306</b></p> <p><b>0306-0-19-XX-16-XX-10-0</b> Wire Termination #18 gage crimp barrel</p>	<p><b>0273</b></p> <p><b>0273-0-15-XX-16-XX-10-0</b> Press-fit in .078 mounting hole</p>	<p><b>7520</b></p> <p><b>7520-0-15-XX-16-XX-10-0</b> Press-fit in .066 mounting hole</p>
---	---	--	--

<p><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - 1X - XX - 16 - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p align="center"><b>CONTACT</b> #16 CONTACT (DATA ON PAGE 221)</p>
--	--

9808	9101	5650	8679
<p><b>9808-0-15-XX-16-XX-04-0</b> Press-fit in .067 mounting hole</p>	<p><b>9101-0-15-XX-16-XX-10-0</b> Press-fit in .067 mounting hole</p>	<p><b>5650-0-19-XX-16-XX-10-0</b> Press-fit in .067 mounting hole</p>	<p><b>8679-0-15-XX-16-XX-10-0</b> Solder mount in .071 min. mounting hole</p>

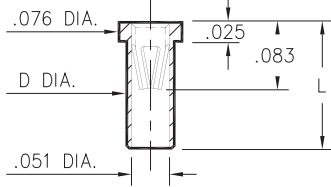
8827	6021	1873
<p><b>8827-0-15-XX-16-XX-04-0</b> Press-fit in .061 mounting hole</p>	<p><b>6021-0-15-XX-16-XX-10-0</b> Solder mount in .062 min. mounting hole</p>	<p><b>1873-0-15-XX-16-XX-04-0</b> Press-fit in .066 mounting hole</p>

--	--	--	--

<p><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - 1X - XX - 16 - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p style="text-align: center;"><b>CONTACT</b> #16 CONTACT (DATA ON PAGE 221)</p>
--	---



### 0305

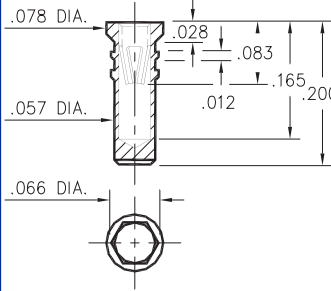


Basic Part Number	Length L	Dia. D
0305-0	.095	.056
0305-1	.105	.058
0305-2	.155	.058

#### 0305-X-15-XX-47-XX-10-0

Solder mount in .059/.061 mounting hole  
Also available on 24mm wide carrier tape: 1,500 parts per 13" reel.  
Order as: 0305-2-57-XX-47-XX-10-0

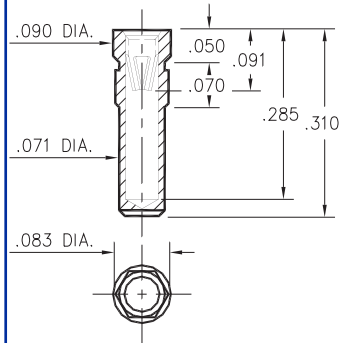
### 0279



#### 0279-0-15-XX-47-XX-10-0

Hex press-fit in .062 plated thru hole

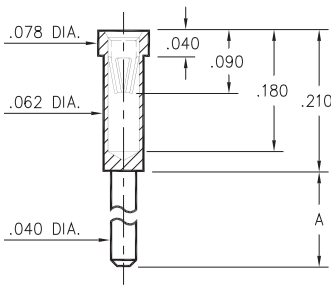
### 0330



#### 0330-0-15-XX-47-XX-10-0

Hex press-fit in .079 plated thru hole

### 0300/8300

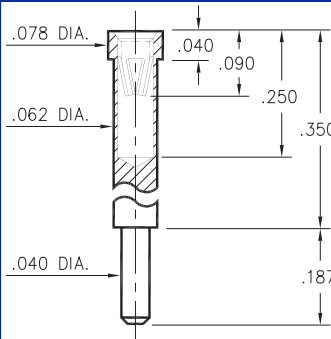


Basic Part Number	Length A
0300-1	.110
0300-2	.187
8300-0	.140

#### X300-X-15-XX-47-XX-10-0

Solder mount in .042 min. mounting hole

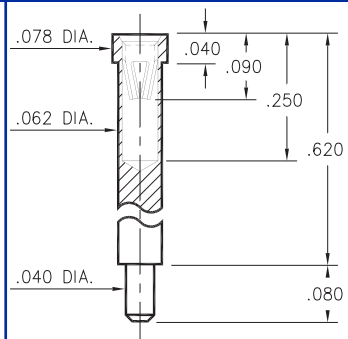
### 0301



#### 0301-1-15-XX-47-XX-10-0

Solder mount in .042 min. mounting hole

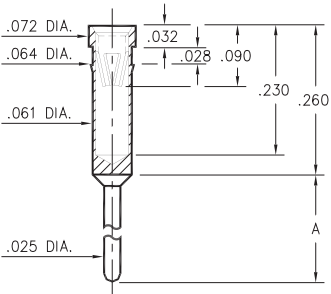
### 0309



#### 0309-2-15-XX-47-XX-10-0

Solder mount in .042 min. mounting hole

### 0399

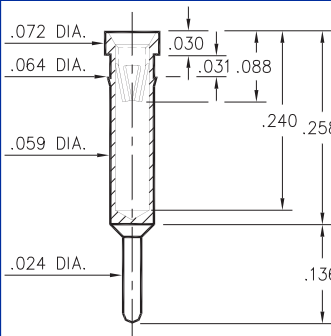


Basic Part Number	Length A
0399-0	.230
0399-1	.180

#### 0399-X-15-XX-47-XX-04-0

Press-fit in .061 mounting hole

### 1304



#### 1304-0-15-XX-47-XX-04-0

Press-fit in .061 mounting hole

## SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 15 - XX - 47 - XX - XX - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 27 30µ" GOLD OVER NICKEL (RoHS)



**CONTACT**

#47 CONTACT (DATA ON PAGE 221)

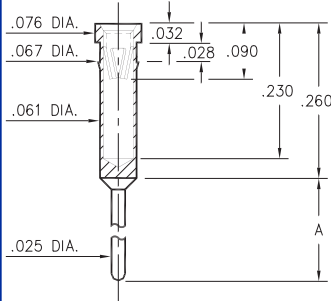
<p><b>1305</b></p> <p><b>1305-0-15-XX-47-XX-04-0</b> Press-fit in .061 mounting hole.</p>	<p><b>1306</b></p> <p><b>1306-0-15-XX-47-XX-04-0</b> Press-fit in .061 mounting hole.</p>	<p><b>7305</b></p> <p><b>7305-0-15-XX-47-XX-10-0</b> Solder mount in .060 min. mounting hole.</p>	<p><b>0400</b></p> <p><b>0400-0-15-XX-47-XX-04-0</b> Press-fit in .067 mounting hole.</p>
---	---	---	---

<p><b>0335</b></p> <p><b>0335-0-15-XX-47-XX-04-0</b> Hex press-fit in .064 plated thru hole</p>	<p><b>4614</b></p> <p><b>4614-0-31-XX-47-XX-04-0</b> Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.</p>	<p><b>4615</b></p> <p><b>4615-0-31-XX-47-XX-04-0</b> Compliant press-fit in .040±.003 plated hole. For .090→.130 thick board.</p>	<p><b>7614</b></p> <p><b>7614-0-31-XX-47-XX-04-0</b> Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.</p>
---	---	---	---

<p><b>8401</b></p> <p><b>8401-0-15-XX-47-XX-04-0</b> Hex press-fit in .063 plated thru hole</p>	<p><b>2400</b></p> <p><b>2400-0-15-XX-47-XX-04-0</b> Press-fit in .066 mounting hole.</p>	<p><b>6857</b></p> <p><b>6857-0-15-XX-47-XX-10-0</b> Press-fit in .061 mounting hole.</p>	<p><b>9393</b></p> <p><b>9393-0-15-XX-47-XX-10-0</b> Press-fit in .067 mounting hole.</p>
---	---	---	---

<p><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - XX - XX - 47 - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p align="center"><b>CONTACT</b></p> <p align="center">#47 CONTACT (DATA ON PAGE 221)</p>
--	--

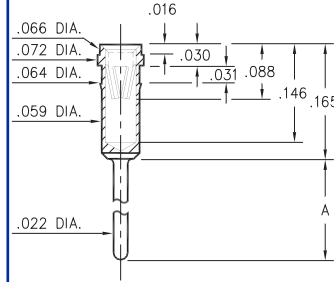
## 0401/6401



Basic Part Number	Length A
0401-0	.340
6401-0	.540

**X401-0-15-XX-47-XX-04-0**  
Press-fit in .064 mounting hole

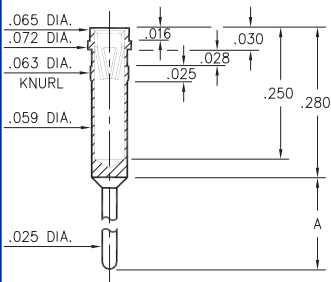
## 1303/8303



Basic Part Number	Length A
1303-0	.125
8303-0	.800

**X303-0-15-XX-47-XX-04-0**  
Press-fit in .061 mounting hole

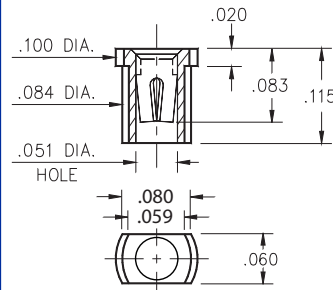
## 4095



Basic Part Number	Length A
4095-0	.635

**409X-0-15-XX-47-XX-04-0**  
Press-fit in .061 mounting hole

## 8806



**8806-0-18-XX-47-XX-40-0**  
Surface mount  
Also available on 12mm wide carrier tape: 4,000 parts per 13" reel.  
Order as: 8806-0-58-XX-47-XX-40-0

### SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

ORDER CODE: **XXXX - X - 1X - XX - 47 - XX - XX - 0**

BASIC PART #

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)

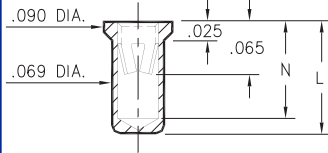


**CONTACT**

#47 CONTACT (DATA ON PAGE 221)



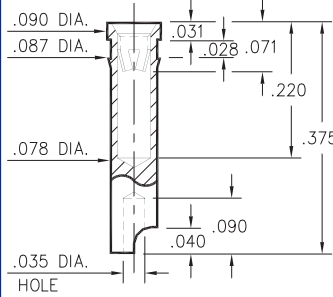
### 0331/9353



Basic Part Number	Length L	Depth N
0331-0	.150	.127
9353-0	.170	.147

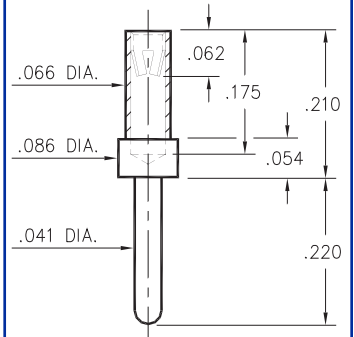
**X3XX-X-15-XX-18-XX-10-0**  
Solder mount in .071 min. mounting hole

### 7405



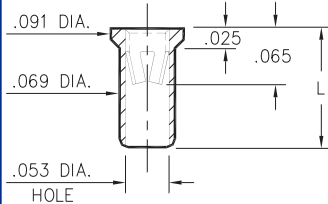
**7405-0-18-XX-18-XX-10-0**  
Press-fit in .084 mounting hole

### 3450



**3450-0-15-XX-18-XX-04-0**  
Solder mount in .043 min. mounting hole

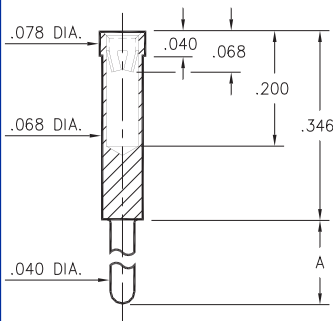
### 9354/7406



Basic Part Number	Length L
7406-0	.120
9354-0	.170

**XXXX-0-15-XX-18-XX-10-0**  
Solder mount in .071 min. mounting hole

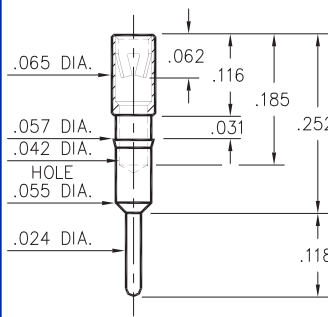
### 0319



Basic Part Number	Length A
0319-0	.240
0319-1	.280

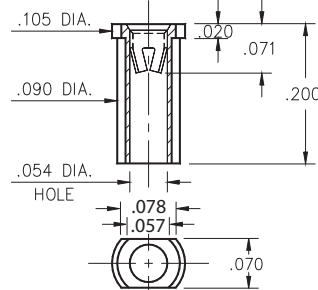
**0319-X-15-XX-18-XX-04-0**  
Solder mount in .042 min. mounting hole

### 1313



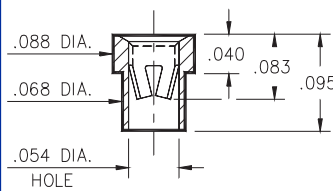
**1313-0-15-XX-18-XX-04-0**  
Press-fit in .056 mounting hole

### 6628



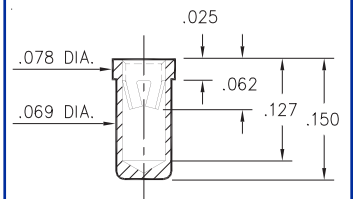
**6628-0-18-XX-18-XX-10-0**  
Surface mount  
Also available on 12mm wide carrier tape: 3,700 parts per 13" reel.  
Order as: 6628-0-58-XX-18-XX-10-0

### 3520



**3520-0-15-XX-18-XX-10-0**  
Solder mount in .070 min. mounting hole

### 8331



**8331-0-15-XX-18-XX-10-0**  
Solder mount in .071 min. mounting hole

## SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 1X - XX - 18 - XX - XX - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

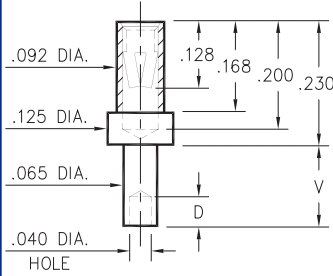
**SPECIFY CONTACT FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



**CONTACT**

#18 CONTACT (DATA ON PAGE 222)

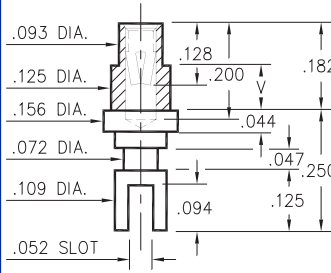
### 0344



Basic Part Number	Board Thickness	Length V	Depth D
0344-1	.031	.062	.040
0344-2	.062	.094	.062
0344-3	.094	.125	.062
0344-4	.125	.156	.062

**0344-X-19-XX-34-XX-10-0**  
Swage mount in .067 hole

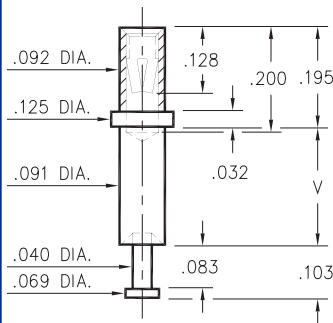
### 0349



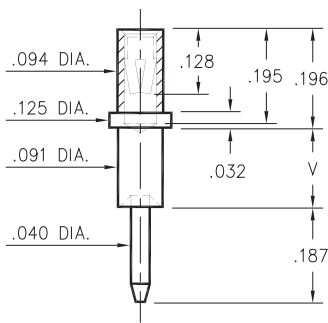
Basic Part Number	Board Thickness	Length V
0349-2	.062	.094
0349-3	.094	.125
0349-4	.125	.156

**0349-X-31-XX-34-XX-10-0**  
Swage mount in .129 hole

### 0323/0324



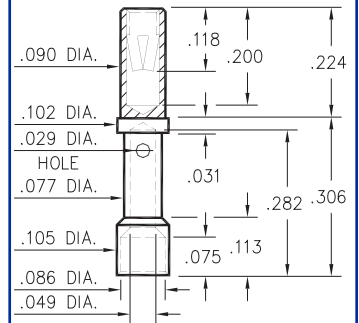
**0323-X-15-XX-34-XX-10-0**  
Swage mount in .094 hole



**0324-X-15-XX-34-XX-10-0**  
Swage mount in .094 hole

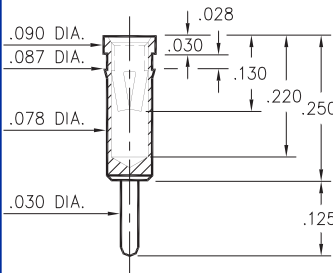
Basic Part Number	Board Thickness	Length V
032X-1	.031	.062
032X-2	.062	.094
032X-3	.094	.125
032X-4	.125	.156
032X-5	.188	.219

### 0348



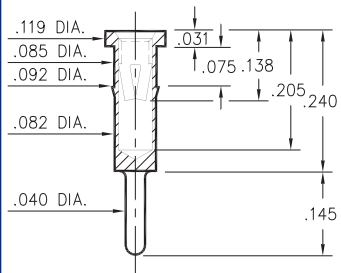
**0348-0-33-XX-34-XX-10-0**  
#20A Crimp Barrel

### 0405



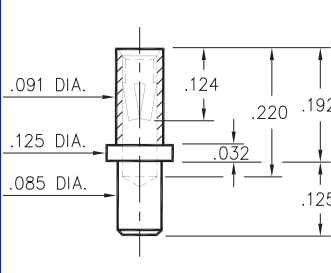
**0405-0-15-XX-34-XX-04-0**  
Press-fit in .084 mounting hole

### 0336



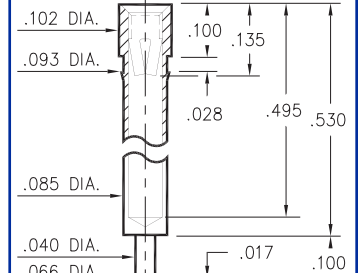
**0336-0-15-XX-34-XX-04-0**  
Press-fit in .089 mounting hole

### 0322



**0322-0-15-XX-34-XX-10-0**  
Solder mount in .089 min. mounting hole

### 0325



**0325-0-15-XX-34-XX-10-0**  
Press-fit in .090 mounting hole

#### SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - XX - XX - 34 - XX - XX - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

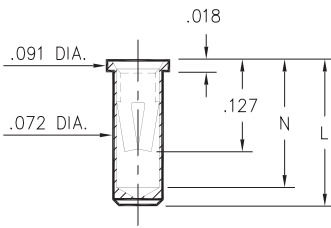
**SPECIFY CONTACT FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



**CONTACT**

#34 CONTACT (DATA ON PAGE 222)

### 0327/0351/0373

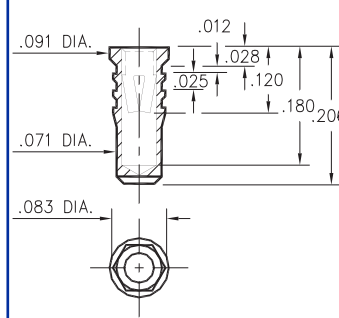


Basic Part Number	Length L	Depth N
0327-0	.206	.180
0351-0	.226	.200
0373-0	.270	.241

**03XX-0-15-XX-34-XX-10-0**

Solder mount in .075 min. mounting hole

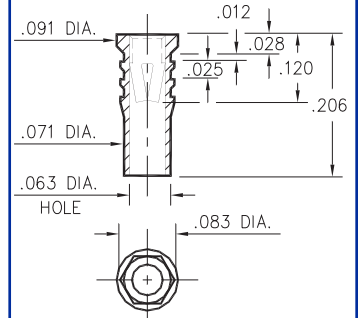
### 0328



**0328-0-15-XX-34-XX-10-0**

Hex press-fit in .079 plated thru hole

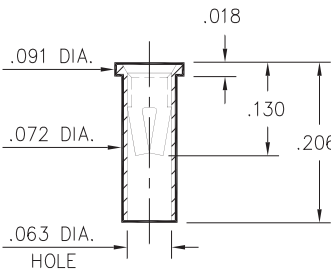
### 0334



**0334-0-15-XX-34-XX-10-0**

Hex press-fit in .079 plated thru hole

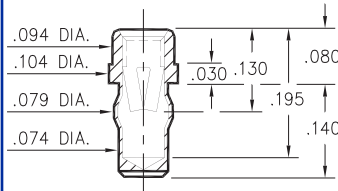
### 0312



**0312-0-15-XX-34-XX-10-0**

Solder mount in .075 min. mounting hole

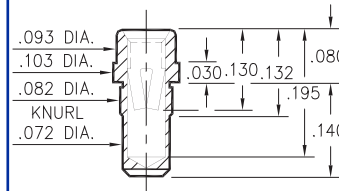
### 0333



**0333-0-42-XX-34-XX-10-0**

Press-fit in .076 mounting hole

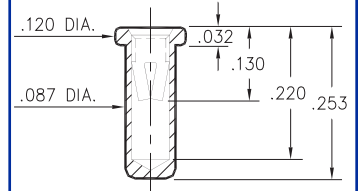
### 0357



**0357-0-15-XX-34-XX-10-0**

Press-fit in .078 mounting hole

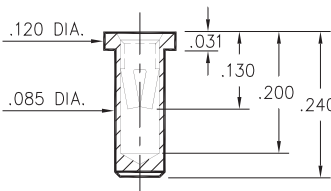
### 0317



**0317-0-15-XX-34-XX-10-0**

Solder mount in .091 min. mounting hole

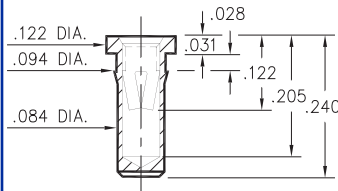
### 0340



**0340-0-15-XX-34-XX-10-0**

Solder mount in .087 min. mounting hole

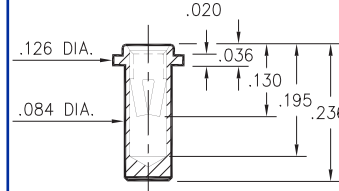
### 0345



**0345-0-15-XX-34-XX-10-0**

Press-fit in .089 mounting hole

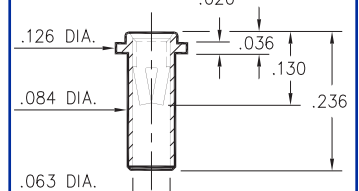
### 0316



**0316-0-15-XX-34-XX-10-0**

Solder mount in .087 min. mounting hole

### 0314



**0314-0-15-XX-34-XX-10-0**

Solder mount in .087 min. mounting hole

## SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - XX - XX - 34 - XX - 10 - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



**CONTACT**

#34 CONTACT (DATA ON PAGE 222)

<p><b>0359</b></p> <p><b>0359-0-15-XX-34-XX-10-0</b> Press-fit in .090 mounting hole</p>	<p><b>0358</b></p> <p><b>0358-0-15-XX-34-XX-10-0</b> Press-fit in .090 mounting hole</p>	<p><b>0360</b></p> <p><b>0360-0-15-XX-34-XX-10-0</b> Press-fit in .090 mounting hole</p>	<p><b>0343</b></p> <p><b>0343-0-15-XX-34-XX-10-0</b> Press-fit in .090 mounting hole</p>
<p><b>0356</b></p> <p><b>0356-0-15-XX-34-XX-10-0</b> Solder mount in .102 min. mounting hole</p>	<p><b>6659</b></p> <p><b>6659-0-15-XX-34-XX-10-0</b> Solder mount in .102 min. mounting hole</p>	<p><b>0347</b></p> <p><b>0347-0-15-XX-34-XX-10-0</b> Solder mount in .120 min. mounting hole</p>	<p><b>0329</b></p> <p><b>0329-0-15-XX-34-XX-10-0</b> Solder mount in .075 min. mounting hole. "knock out" bottom.</p>
<p><b>0814</b></p> <p><b>0814-0-15-XX-34-XX-04-0</b> Solder mount in .082 min. mounting hole</p>	<p><b>5059</b></p> <p><b>5059-0-15-XX-34-XX-04-0</b> Press-fit in .090 mounting hole</p>	<p><b>8360</b></p> <p><b>8360-0-15-XX-34-XX-10-0</b> Press-fit in .087 mounting hole</p>	<p><b>9359</b></p> <p><b>9359-0-15-XX-34-XX-10-0</b> Press-fit in .090 mounting hole</p>

**SPECIFICATIONS**

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 15 - XX - 34 - XX - XX - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**  
**01** 200μ" TIN/LEAD OVER NICKEL  
**80** 200μ" TIN OVER NICKEL (RoHS)  
**15** 10μ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**  
**01** 200μ" TIN/LEAD OVER NICKEL  
**80** 200μ" TIN OVER NICKEL (RoHS)  
**27** 30μ" GOLD OVER NICKEL (RoHS)



**CONTACT**

#34 CONTACT (DATA ON PAGE 222)

8838	3100	8853	6800
<p><b>8838-0-15-XX-34-XX-10-0</b> Solder mount in .086 min. mounting hole</p>	<p><b>3100-0-15-XX-34-XX-10-0</b> Solder mount in .074 min. mounting hole</p>	<p><b>8853-0-15-XX-34-XX-10-0</b> Press-fit in .071 mounting hole</p>	<p><b>6800-0-15-XX-34-XX-04-0</b> Solder mount in .080 min. mounting hole</p>

8206	0739		
<p><b>8206-0-15-XX-34-XX-40-0</b> Surface mount</p>	<p><b>0739-0-15-XX-34-XX-10-0</b> Hex press-fit in .078±.002 plated thru hole</p>		

--	--	--	--

<p><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - 15 - XX - 34 - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p style="text-align: center;"><b>CONTACT</b> #34 CONTACT (DATA ON PAGE 222)</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p><b>RoHS</b> 2002/95/EC</p> </div>
--	--

0355	0354	3490	3808
<p><b>0355-0-15-XX-02-XX-10-0</b> Solder mount in .102 min. mounting hole</p>	<p><b>0354-0-15-XX-02-XX-10-0</b> Pentagonal press-fit in .104 min. plated thru hole</p>	<p><b>3490-0-15-XX-02-XX-10-0</b> Press-fit in .091 mounting hole</p>	<p><b>3808-0-15-XX-02-XX-10-0</b> Press-fit in .090 mounting hole</p>

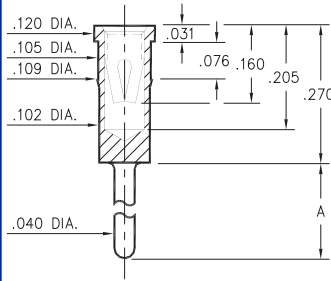
9184	9222		
<p><b>9184-0-15-XX-02-XX-40-0</b> Bottom entry, surface mount .092 min. plated thru hole. Also available on carrier tape, Order as: 9184-0-57-XX-02-XX-40-0</p>	<p><b>9222-2-15-XX-02-XX-40-0</b> Bottom entry, surface mount .082 min. plated thru hole Also available on carrier tape, Order as: 9222-2-57-XX-02-XX-40-0</p>	<p>Carrier tape format for 9184 &amp; 9222. 1,500 pieces per 13" reel</p>	

--	--	--	--

<p><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - 15 - XX - 02 - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b> →</p> <p>01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) ◇ 15 10μ" GOLD OVER NICKEL (RoHS)</p> <p><b>SPECIFY CONTACT FINISH:</b> →</p> <p>01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) ◇ 27 30μ" GOLD OVER NICKEL (RoHS)</p> <p style="text-align: center;"><b>CONTACT</b> #02 CONTACT (DATA ON PAGE 223)</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p><b>RoHS</b> 2002/95/EC</p> </div>
--	--

Downloaded from [Arrow.com](http://Arrow.com)

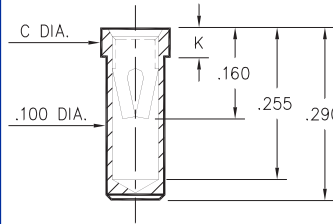
## 0433/8433



Basic Part Number	Length A
0433-0	.120
8433-0	.330

**X433-0-15-XX-03-XX-04-0**  
Press-fit in .106 mounting hole

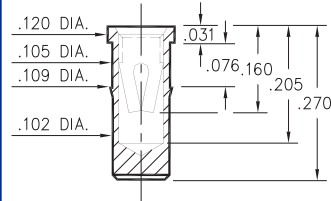
## 0435/0436



Basic Part Number	Dia. C	Length K
0435-0	.118	.050
0436-0	.125	.070

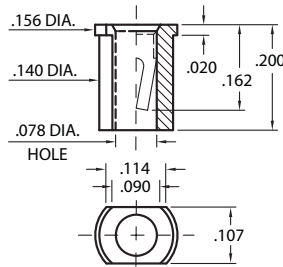
**0435-0-15-XX-03-XX-10-0**  
Solder mount in .102 min. mounting hole  
Also available on 24mm wide carrier  
tape: 950 parts per 13" reel.  
Order as: 0435-0-57-XX-03-XX-10-0

## 0434



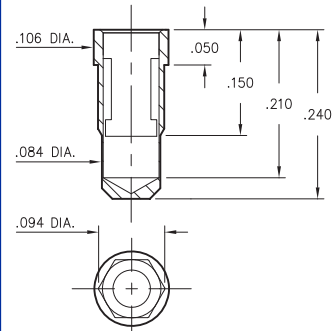
**0434-0-15-XX-03-XX-10-0**  
Press-fit in .106 mounting hole

## 4064



**4064-0-18-XX-03-XX-40-0**  
Surface mount  
Also available on 16mm wide carrier  
tape: 2,400 parts per 13" reel.  
Order as: 4064-0-58-XX-03-XX-40-0

## 0342



**0342-0-15-XX-42-XX-10-0**  
Hex press-fit in .090±.002  
plated thru hole

- 0342 receptacle uses Mill-Max's new #42 Contact. This receptacle will accept the  $\varnothing.061 \pm .002$  power pins of 1/4 brick DC/DC converters.
- #42 contact can be ordered in standard receptacles that use #03 contact; or it can be specified as the spring element inside custom made receptacles.

### Mechanical Data #42 Contact:

Insertion/Extraction Force with a  $\varnothing.061$  (nominal) pin:

First Cycle		2nd & Subsequent Cycles	
Insertion Force	Extraction Force	Insertion Force	Extraction Force
20N	6N	10N	6N

Compliance Test (the "spring back" characteristic of the contact to accept  $\varnothing.059$  small pin after insertion of a  $\varnothing.063$  large pin) :

Initial Cycle with $\varnothing.059$ pin		Second Cycle with $\varnothing.063$ pin		Third Cycle with $\varnothing.059$ pin	
Ins. Force	Ext. Force	Ins. Force	Ext. Force	Ins. Force	Ext. Force
18N	6N	22N	7N	3N	2N

(Insertion/Extraction Forces are in Newtons and measured with polished steel gage pins having elliptical shaped tips).

## SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS:  $\pm .005$   
DIAMETERS:  $\pm .002$   
ANGLES:  $\pm 2^\circ$

**ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**

- 01 200 $\mu$ " TIN/LEAD OVER NICKEL
- ◇ 80 200 $\mu$ " TIN OVER NICKEL (RoHS)
- ◇ 15 10 $\mu$ " GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**

- 01 200 $\mu$ " TIN/LEAD OVER NICKEL
- ◇ 80 200 $\mu$ " TIN OVER NICKEL (RoHS)
- ◇ 27 30 $\mu$ " GOLD OVER NICKEL (RoHS)



**SELECT CONTACT**

#03 or #42 CONTACT (DATA ON PAGE 224)

0364	0363	0365	0366
<p><b>0364-0-15-XX-13-XX-10-0</b> Solder mount in .100 min. mounting hole Also available on 16mm wide carrier tape: 1,300 parts per 13" reel. Order as: 0364-0-57-XX-13-XX-10-0</p>	<p><b>0363-0-15-XX-23-XX-10-0</b> Solder mount in .102 min. mounting hole</p>	<p><b>0365-0-15-XX-23-XX-10-0</b> Hex press-fit in .105 plated thru hole</p>	<p><b>0366-0-15-XX-13-XX-10-0</b> Press-fit in .109 mounting hole</p>
0372	0362	0367	9324
<p><b>0372-0-15-XX-13-XX-10-0</b> Solder mount in .102 min. mounting hole</p>	<p><b>0362-0-15-XX-X3-XX-10-0</b> Solder mount in .102 min. mounting hole</p>	<p><b>0367-0-15-XX-23-XX-10-0</b> Square press-fit in .040 plated thru hole</p>	<p><b>9324-0-15-XX-23-XX-04-0</b> Press-fit in .106 mounting hole</p>
0492	0381	4034	3044
<p><b>0492-0-15-XX-13-XX-04-0</b> Press-fit in .106 mounting hole</p>	<p><b>0381-0-15-XX-23-XX-10-0</b> Press-fit in .104 mounting hole</p>	<p><b>4034-0-15-XX-23-XX-04-0</b> Press-fit in .109 mounting hole</p>	<p><b>3044-0-15-XX-23-XX-04-0</b> Solder mount in .104 min. mounting hole</p>

**SPECIFICATIONS**

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



**SELECT CONTACT**

#13 or #23 CONTACT (DATA ON PAGES 224 & 225)



<p><b>0496</b></p> <p><b>0496-0-15-XX-23-XX-10-0</b> Press-fit in .106 mounting hole</p>	<p><b>0368</b></p> <p><b>0368-0-33-XX-13-XX-10-0</b> #16A Crimp Barrel</p>	<p><b>8067</b></p> <p><b>8067-0-19-XX-13-XX-10-0</b> Wire Termination</p>	<p><b>1105</b></p> <p><b>1105-0-15-XX-13-XX-04-0</b> Press-fit in .080 mounting hole</p>
--	--	---	--

<p><b>8730</b></p> <p><b>8730-0-19-XX-23-XX-10-0</b> Wire Termination</p>	<p><b>3667</b></p> <p><b>3667-0-19-XX-23-XX-10-0</b> Wire Termination</p>	<p><b>9372</b></p> <p><b>9372-0-15-XX-23-XX-10-0</b> Solder mount in .102 min. mounting hole</p>	<p><b>4582</b></p> <p><b>4582-0-15-XX-23-XX-10-0</b> Square press-fit in .040 plated thru hole</p>
---	---	--	--

<p><b>5834</b></p> <p><b>5834-0-15-XX-23-XX-10-0</b> Press-fit in .107 mounting hole</p>	<p><b>9401</b></p> <p><b>9401-0-15-XX-23-XX-10-0</b> Solder mount in .102 min. mounting hole Also available on 24mm wide carrier tape: 1,100 parts per 13" reel. Order as: 9401-0-57-XX-23-XX-10-0</p>	<p><b>9801</b></p> <p><b>9801-0-15-XX-23-XX-10-0</b> Solder mount in .102 min. mounting hole Also available on 16mm wide carrier tape: 1,200 parts per 13" reel. Order as: 9801-0-57-XX-23-XX-10-0</p>	<p><b>8829</b></p> <p><b>8829-0-15-XX-23-XX-10-0</b> Solder mount in .102 min. mounting hole</p>
--	--	--	--

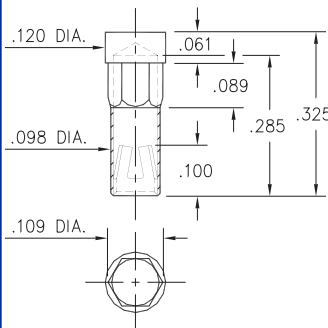
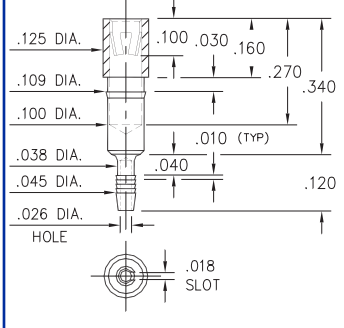
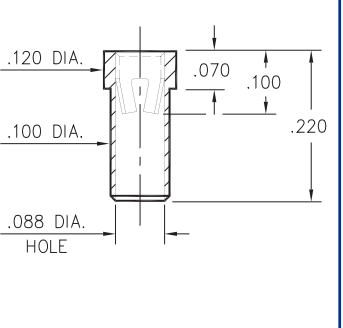
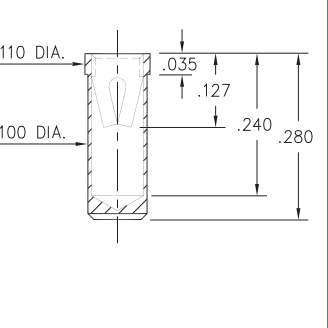
<p><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - XX - XX - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SELECT CONTACT</b> #13 or #23 CONTACT (DATA ON PAGES 224 &amp; 225)</p>
--	---



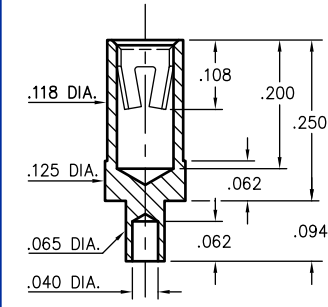


**PIN RECEPTACLES**  
 for .048" - .064" diameter pins (#13 contact)  
 for .045" - .065" diameter pins (#23 contact)




8365	8996	9064	9280
 <p><b>8365-0-15-XX-13-XX-10-0</b>        Hex-pressfit in .106 plated thru hole.</p>	 <p><b>8996-0-31-XX-13-XX-04-0</b>        Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.</p>	 <p><b>9064-0-15-XX-13-XX-10-0</b>        Solder mount in .102 min. mounting hole</p>	 <p><b>9280-0-15-XX-13-XX-10-0</b>        Solder mount in .102 min. mounting hole</p>

**4900**

 <p><b>4900-0-19-XX-23-XX-10-0</b>        Swage mount in .067 hole</p>			
--	--	--	--

--	--	--	--

<p><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b>  <b>TOLERANCES ON:</b>        LENGTHS: ±.005        DIAMETERS: ±.002        ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - XX - XX - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b> →</p> <p>01 200μ" TIN/LEAD OVER NICKEL        ◇ 80 200μ" TIN OVER NICKEL (RoHS)        ◇ 15 10μ" GOLD OVER NICKEL (RoHS)</p> <p><b>SPECIFY CONTACT FINISH:</b> →</p> <p>01 200μ" TIN/LEAD OVER NICKEL        ◇ 80 200μ" TIN OVER NICKEL (RoHS)        ◇ 27 30μ" GOLD OVER NICKEL (RoHS)</p> <p style="text-align: center;"><b>SELECT CONTACT</b></p> <p style="text-align: center;">#13 or #23 CONTACT (DATA ON PAGES 224 &amp; 225)</p> <div style="text-align: center;">  </div>
--	---

Downloaded from [Arrow.com](http://Arrow.com)

<p><b>0394</b></p> <p><b>0394-0-15-XX-07-XX-10-0</b> Solder mount in .120 min. mounting hole</p>	<p><b>0393</b></p> <p><b>0393-0-15-XX-07-XX-10-0</b> Solder mount in .144 min. mounting hole</p>	<p><b>0391</b></p> <p><b>0391-0-15-XX-07-XX-10-0</b> Solder mount in .159 min. mounting hole</p>	<p><b>9016</b></p> <p><b>9016-0-15-XX-07-XX-10-0</b> Press-fit in .131 mounting hole</p>
--	--	--	--

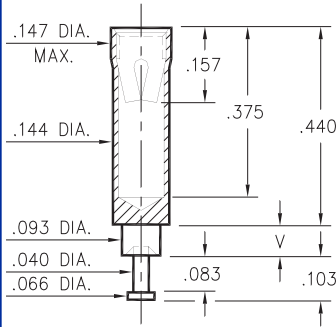
<p><b>0493</b></p> <p><b>0493-0-15-XX-07-XX-10-0</b> Press-fit in .144 mounting hole</p>	<p><b>0490</b></p> <p><b>0490-0-15-XX-07-XX-04-0</b> Press-fit in .144 mounting hole</p>	<p><b>0616</b></p> <p><b>0616-0-18-XX-07-XX-10-0</b> Press-fit in .144 mounting hole</p>	<p><b>0387</b></p> <p><b>0387-0-15-XX-07-XX-04-0</b> Solder mount in .063 min. mounting hole</p>
--	--	--	--

<p><b>0370</b></p> <p><b>0370-0-19-XX-07-XX-10-0</b> #18 Gage crimp barrel</p>	<p><b>4040</b></p> <p><b>4040-0-19-XX-07-XX-10-0</b> Wire Termination</p>	<p><b>0491</b></p> <p><b>0491-0-19-XX-07-XX-04-0</b> For use in stackable patch cords</p>	<p><b>9214</b></p> <p><b>9214-0-15-XX-07-XX-10-0</b> Solder mount in .083 min. mounting hole</p>
--	---	---	--

<p><b>SPECIFICATIONS</b></p> <p><b>SHELL MATERIAL:</b> Brass Alloy 360, 1/2 Hard</p> <p><b>CONTACT MATERIAL:</b> Beryllium Copper Alloy 172, HT</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - 1X - XX - 07 - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY SHELL FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p><b>SPECIFY CONTACT FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 27 30μ" GOLD OVER NICKEL (RoHS)</li> </ul> <p style="text-align: center;"><b>CONTACT</b></p> <p style="text-align: center;">#07 CONTACT (DATA ON PAGE 222)</p>
--	--



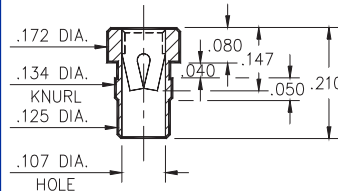
### 0395



Basic Part Number	Board Thickness	Length V
0395-1	.031	.062
0395-2	.062	.094
0395-3	.094	.125
0395-4	.125	.156
0395-5	.188	.219

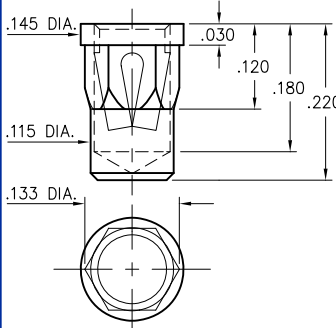
**0395-X-15-XX-07-XX-10-0**  
Swage mount in .096 hole

### 8016



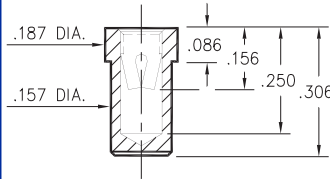
**8016-0-15-XX-07-XX-10-0**  
Press-fit in .131 mounting hole

### 0350



**0350-0-15-XX-07-XX-10-0**  
Hex press-fit in .129±.002 plated thru hole

### 8837



**8837-0-15-XX-14-XX-10-0**  
Solder mount in .159 min. mounting hole

#### SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0**

**BASIC PART #** →

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

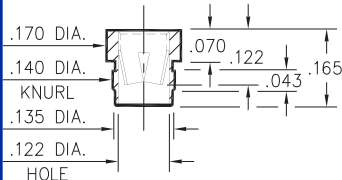
**SPECIFY CONTACT FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



**SELECT CONTACT**

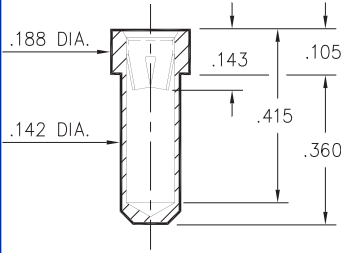
#07 or #14 CONTACT (DATA ON PAGES 225 & 226)

### 0388



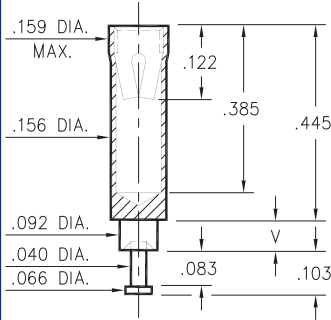
**0388-0-15-XX-08-XX-10-0**  
Press-fit in .138 mounting hole

### 0390



**0390-0-15-XX-08-XX-10-0**  
Solder mount in .144 min. mounting hole

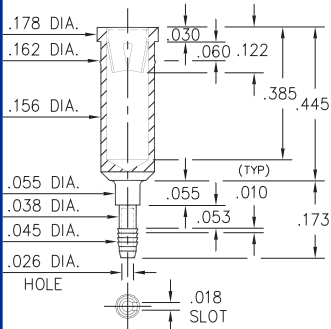
### 0389



**0389-X-15-XX-08-XX-10-0**  
Swage mount in .094 hole

Basic Part Number	Board Thickness	Length V
0389-2	.062	.094
0389-3	.094	.125
0389-4	.125	.156

### 8963



**8963-0-31-XX-08-XX-04-0**  
Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.

#### SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

ORDER CODE: **XXXX - X - XX - XX - 08 - XX - XX - 0**

BASIC PART #

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



CONTACT

#08 CONTACT (DATA ON PAGE 226)



# PIN RECEPTACLES

With Organic Fibre Plug® Solder Barrier  
(see specific contact range on pages 216, 217, 218 & 221)



- These through-hole (tubular) receptacles are designed for hand, wave or reflow\* soldering. The **ORGANIC FIBRE PLUG®** barrier prevents solder, paste or flux from contaminating the spring contact.
- After soldering, the **OFFP®** barrier is pushed out of the receptacle when the device is plugged in.
- All parts are available as discrete receptacles; but for SMT assembly, certain receptacles are supplied on carrier tape per EIA-481 to feed industry standard pick and place machines.



*\*Intrusive reflow (also called "pin-in-paste") is a technique of using conventional through-hole components in a reflow soldering process. The receptacles are placed into plated through-holes in the circuit board (solder paste has previously been screen printed on pads adjacent to the holes) and the board is reflowed in the same pass as other SMT components. Solder will fill the plated through-holes and achieve solder joints as reliable as wave soldering. The OFFP® barrier prevents solder paste from being picked-up inside the contact during pick 'n place assembly. "Overprinting" paste on the solder mask can be used to adjust the volume of paste required to fill each hole.*

5359	0577	4015	3435
<p><b>5359-0-XX-XX-10-XX-10-0</b> Solder mount in <math>\text{Ø}0.043\pm.003</math> PTH. <b>#10</b> Contact for <math>\text{Ø}0.012</math>-<math>0.017</math> pins. Also available on 16mm wide carrier tape: 3,000 parts per 13" reel.</p>	<p><b>0577-0-XX-XX-21-XX-10-0</b> Solder mount in <math>\text{Ø}0.045\pm.003</math> PTH. <b>#21</b> Contact for <math>\text{Ø}0.015</math>-<math>0.022</math> pins. Also available on 12mm wide carrier tape: 3,000 parts per 13" reel.</p>	<p><b>4015-0-XX-XX-30-XX-10-0</b> Solder mount in <math>\text{Ø}0.057\pm.003</math> PTH. <b>#30</b> Contact for <math>\text{Ø}0.015</math>-<math>0.025</math> pins. Also available on 8mm wide carrier tape: 5,500 parts per 13" reel.</p>	<p><b>3435-0-XX-XX-47-XX-04-0</b> Solder mount in <math>\text{Ø}0.046\pm.003</math> PTH. <b>#47</b> Contact for <math>\text{Ø}0.025</math>-<math>0.036</math> and <math>.025</math>" square pins.</p>

<p><b>SPECIFICATIONS</b> SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT SOLDER BARRIER: Organic Fibre Plug® DIMENSION IN INCHES TOLERANCES ON: LENGTHS: <math>\pm.005</math> DIAMETERS: <math>\pm.002</math> ANGLES: <math>\pm 2^\circ</math></p>	<p><b>ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY PACKAGING:</b> →</p> <p>43 Discrete Receptacles 67 Supplied on 13" Reels</p> <p><b>SPECIFY SHELL FINISH:</b> →</p> <p>01 200µ" TIN/LEAD OVER NICKEL ◇ 80 200µ" TIN OVER NICKEL (RoHS)</p> <p style="text-align: center;"><b>CONTACT</b></p> <p>#10, #21, #30 or #47 CONTACT (DATA ON PAGES 216, 217, 218 &amp; 221)</p>	<p><b>SPECIFY CONTACT FINISH:</b></p> <p>◇ 27 30µ" GOLD OVER NICKEL (RoHS) 02 100µ" TIN/LEAD OVER NICKEL ◇ 84 100µ" TIN OVER NICKEL (RoHS)</p>
---	--	--



4280	5280	0479
------	------	------

<p><b>4280-0-XX-XX-16-XX-10-0</b> Solder mount in <math>\text{Ø}0.067\pm.003</math> PTH. #16 Contact for <math>\text{Ø}0.022-.034</math> pins. Also available on 8mm wide carrier tape: 6,000 parts per 13" reel.</p>	<p><b>5280-0-XX-XX-16-XX-40-0</b> Solder mount in <math>\text{Ø}0.067\pm.003</math> PTH. #16 Contact for <math>\text{Ø}0.022-.034</math> pins. Also available on 16mm wide carrier tape: 2,200 parts per 13" reel.</p>	<p><b>0479-0-XX-XX-34-XX-10-0</b> Solder mount in <math>\text{Ø}0.077\pm.003</math> PTH. #34 Contact for <math>\text{Ø}0.032-.046</math> pins. Also available on 16mm wide carrier tape: 2,000 parts per 13" reel.</p>
---	--	--

9873	5364	5291
------	------	------

<p><b>9873-0-XX-XX-02-XX-10-0</b> Solder mount in <math>\text{Ø}0.083\pm.003</math> PTH. #02 Contact for <math>\text{Ø}0.040-.050</math> pins. Also available on 12mm wide carrier tape: 4,500 parts per 13" reel.</p>	<p><b>5364-0-XX-XX-23-XX-10-0</b> Solder mount in <math>\text{Ø}0.103\pm.003</math> PTH. #23 Contact for <math>\text{Ø}0.045-.065</math> pins. Also available on 12mm wide carrier tape: 2,000 parts per 13" reel.</p>	<p><b>5291-0-XX-XX-08-XX-40-0</b> Solder mount in <math>\text{Ø}0.139\pm.003</math> PTH. #08 Contact for <math>\text{Ø}0.084-.102</math> pins. Also available on 16mm wide carrier tape: 1,700 parts per 13" reel.</p>
--	--	--

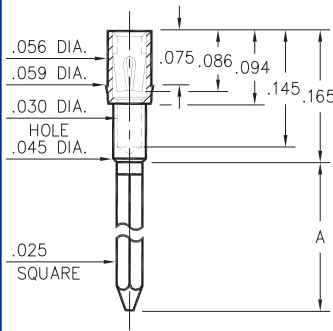
--	--	--

<p><b>SPECIFICATIONS</b> SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT SOLDER BARRIER: Organic Fibre Plug® DIMENSION IN INCHES TOLERANCES ON: LENGTHS: <math>\pm.005</math> DIAMETERS: <math>\pm.002</math> ANGLES: <math>\pm 2^\circ</math></p>	<p><b>ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY PACKAGING:</b> →</p> <p>43 Discrete Receptacles 67 Supplied on 13" Reels</p> <p><b>SPECIFY SHELL FINISH:</b> →</p> <p>01 <math>200\mu\text{TIN/LEAD OVER NICKEL}</math> ◇ 80 <math>200\mu\text{TIN OVER NICKEL (RoHS)}</math></p> <p style="text-align: center;"><b>CONTACT</b></p> <p>#02, #08, #16, #23 or #34 CONTACT (DATA ON PAGES 221 - 226)</p>	<p><b>SPECIFY CONTACT FINISH:</b></p> <p>◇ 27 <math>30\mu\text{TIN/LEAD OVER NICKEL (RoHS)}</math> 02 <math>100\mu\text{TIN/LEAD OVER NICKEL}</math> ◇ 84 <math>100\mu\text{TIN OVER NICKEL (RoHS)}</math></p>
---	---	--



Downloaded from [Arrow.com](http://Arrow.com)

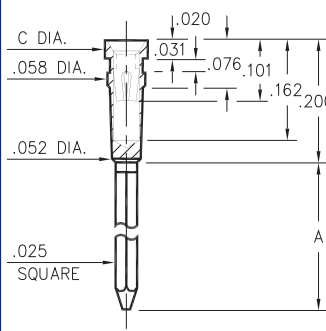
### 1702/1703



Basic Part Number	# of Wraps	Length A
1702-2	2	.370
1703-3	3	.510

**170X-X-17-XX-30-XX-02-0**  
Press-fit in .057 mounting hole

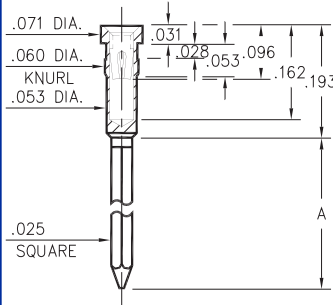
### 0038⇒0040/0066⇒0068



Basic Part #	# of Wraps	Length A	Dia. C
0040-1	1	.260	
0039-2	2	.360	.072
0038-3	3	.500	
0068-1	1	.260	
0067-2	2	.360	.062
0066-3	3	.500	

**00XX-X-17-XX-30-XX-02-0**  
Press-fit in .055 mounting hole

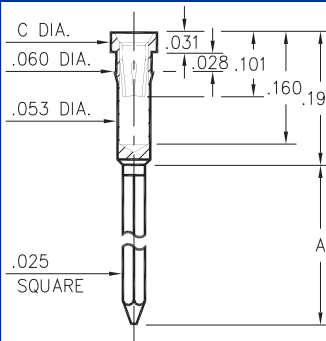
### 0086/0088/0089



Basic Part Number	# of Wraps	Length A
0089-2	2	.370
0088-3	3	.510
0086-4	4	.630

**008X-X-17-XX-3X-XX-02-0**  
Press-fit in .057 mounting hole

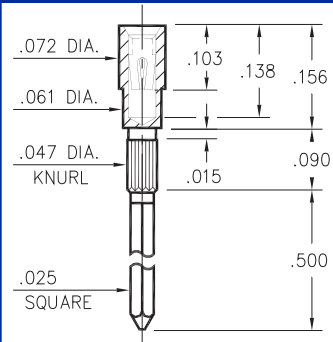
### 1030⇒1036



Basic Part #	# of Wraps	Length A	Dia. C
1032-1	1	.260	
1031-2	2	.360	.072
1030-3	3	.510	
1036-1	1	.260	
1035-2	2	.360	.062
1034-3	3	.510	

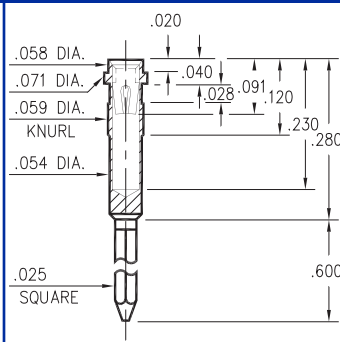
**103X-X-17-XX-3X-XX-02-0**  
Press-fit in .057 mounting hole

### 1045



**1045-3-17-XX-30-XX-02-0**  
Press-fit in .043 mounting hole

### 1040



**1040-3-17-XX-30-XX-02-0**  
Press-fit in .056 mounting hole

## SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 17 - XX - XX - XX - 02 - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**  
02 100μ" TIN/LEAD OVER NICKEL  
◇ 84 100μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)

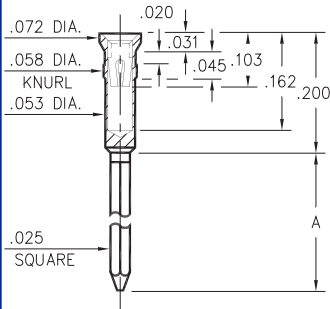


**SELECT CONTACT**

#30 or #32 CONTACT (DATA ON PAGES 218 & 219)



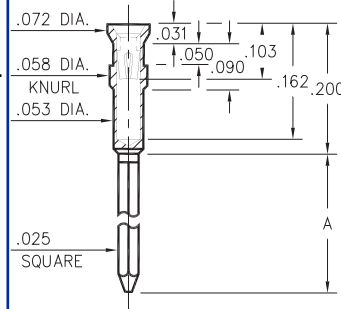
## 0444



Basic Part Number	# of Wraps	Length A
0444-1	1	.260
0444-2	2	.370
0444-3	3	.505

**0444-X-17-XX-30-XX-02-0**  
Press-fit in .056 mounting hole

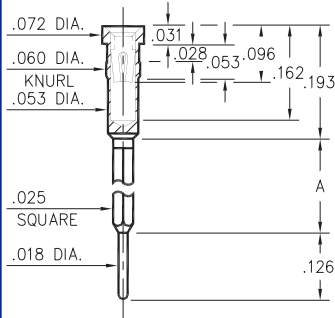
## 0445



Basic Part Number	# of Wraps	Length A
0445-3	3	.505

**044X-X-17-XX-30-XX-02-0**  
Press-fit in .056 mounting hole

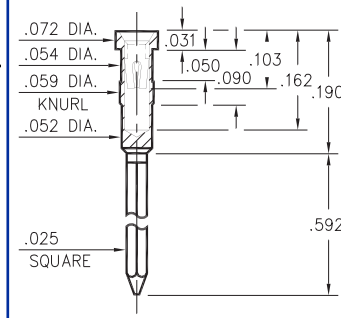
## 2601 ⇒ 2603



Basic Part Number	# of Wraps	Length A
2601-0	1	.232
2602-0	2	.350
2603-0	3	.468

**260X-X-17-XX-30-XX-02-0**  
Press-fit in .057 mounting hole

## 1047



**1047-3-17-XX-30-XX-02-0**  
Press-fit in .056 mounting hole

### SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 17 - XX - 30 - XX - 02 - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

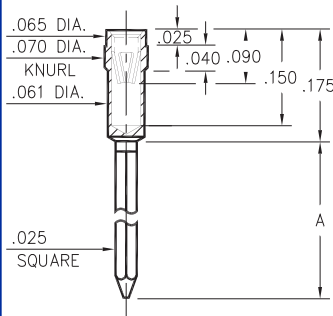
**SPECIFY CONTACT FINISH:**  
02 100μ" TIN/LEAD OVER NICKEL  
◇ 84 100μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



**CONTACT**

#30 CONTACT (DATA ON PAGE 218)

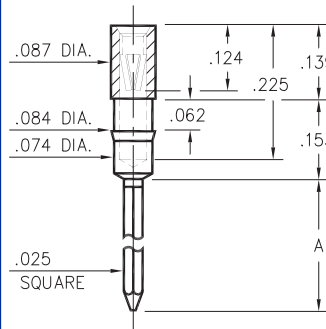
## 2297



Basic Part Number	# of Wraps	Length A
2297-2	2	.370
2297-3	3	.430

**2297-X-17-XX-16-XX-02-0**  
Press-fit in .067 mounting hole

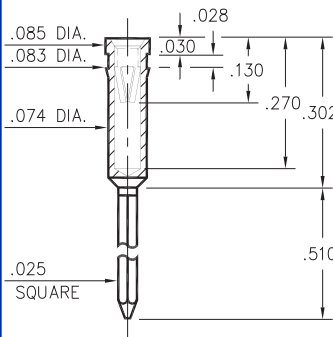
## 0280



Basic Part Number	# of Wraps	Length A
0280-2	2	.360
0280-3	3	.510

**0280-X-17-XX-06-XX-02-0**  
Press-fit in .081 mounting hole

## 0281



**0281-3-17-XX-06-XX-02-0**  
Press-fit in .080 mounting hole

### SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 17 - XX - XX - XX - 02 - 0**

**BASIC PART #** →

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

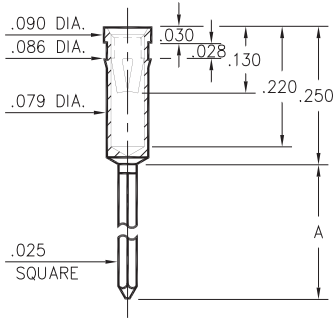
**SPECIFY CONTACT FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



**SELECT CONTACT**

#06 or #16 CONTACT (DATA ON PAGES 220 & 221)

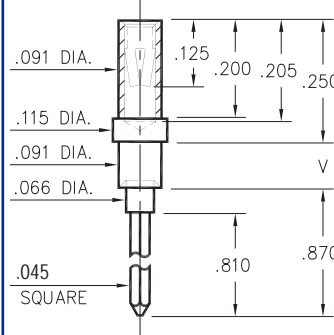
## 1052/1053



Basic Part Number	# of Wraps	Length A
1053-2	2	.360
1052-3	3	.515

**105X-X-17-XX-34-XX-02-0**  
Press-fit in .083 mounting hole

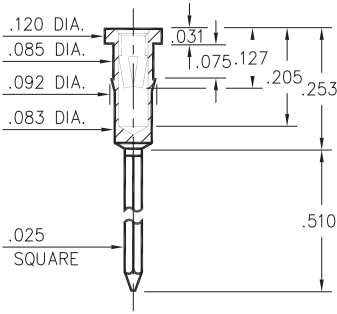
## 0383



Basic Part Number	Board Thickness	Length V
0383-1	.062	.094
0383-2	.094	.125
0383-3	.125	.156

**0383-X-17-XX-34-XX-02-0**  
Swage mount in .094 hole

## 0382



**0382-3-17-XX-34-XX-02-0**  
Press-fit in .089 mounting hole

### SPECIFICATIONS

**SHELL MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**CONTACT MATERIAL:**  
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 17 - XX - 34 - XX - 02 - 0**

**BASIC PART #**

**SPECIFY SHELL FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**  
01 200μ" TIN/LEAD OVER NICKEL  
◇ 80 200μ" TIN OVER NICKEL (RoHS)  
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



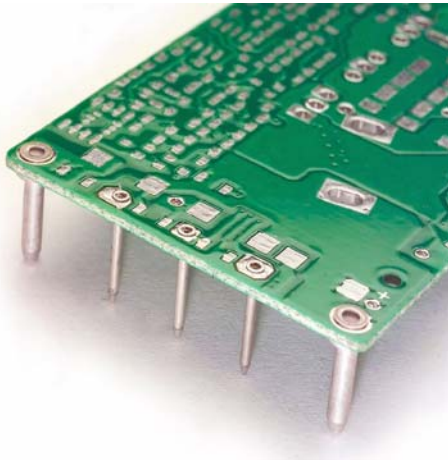
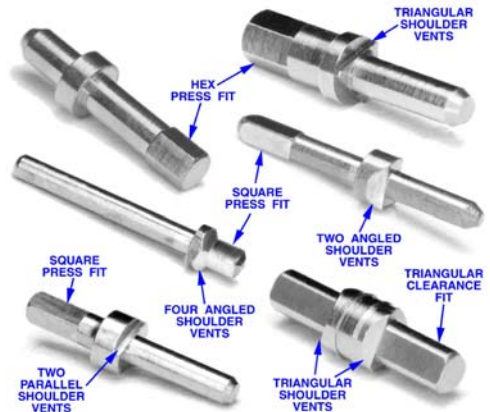
**CONTACT**

#34 CONTACT (DATA ON PAGE 222)

## THE BASIC PIN

Mill-Max printed circuit pins are machined individual pins used for various plug-in applications and are functionally the dynamic building blocks within an interconnect system. Turret, slotted, wrappost and pin types are available. They are commonly fastened to printed circuit boards by being press-fit, swaged (riveted) or soldered.

PCB pins serve not only as a conductive path for an electrical circuit, but provide strength to an assembly module as a mechanical interface. Mill-Max Mfg. Corp. has developed thousands of state-of-the-art “basic pin” designs, featuring pin barrel geometries for our customers who require outside-the-box solutions to their interconnect needs.



In addition to the products found on the following pages Mill-Max offers the following stock materials and diameters available for manufacture:

BRASS Alloy 360, 1/2 hard: .062/.072/.078/.093/.125/.156/.187/.250 diameters

BRASS Alloy 360, 1/4 hard: .072/.078 diameters

BRASS TUBING: .072 O.D.x.020 I.D./ .072 O.D.x.025 I.D.

PHOSPHOR BRONZE Alloy 544: .062/.072/.078 diameters

TELLURIUM COPPER Alloy 145: .079/.093/.125/.156 diameters

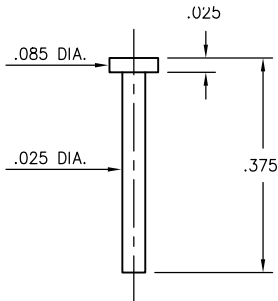
Mill-Max will gladly quote application specific products. Please complete the specification sheet on page 213 or send us your own drawings. We assure you a fast response.



<b>4184</b>	<b>9050</b>	<b>4353</b>	<b>9083</b>
<b>4184-0-00-XX-00-00-33-0</b> Solder mount in .014 mounting hole	<b>9050-0-00-XX-00-00-33-0</b> Solder mount in .016 mounting hole	<b>4353-0-00-XX-00-00-33-0</b> Solder mount in .016 mounting hole	<b>9083-0-00-XX-00-00-38-0</b> Solder mount in .016 mounting hole
<b>4825</b>	<b>4689</b>	<b>4361</b>	<b>4288</b>
<b>4825-0-00-XX-00-00-33-0</b> Solder mount in .019 mounting hole	<b>4689-0-00-XX-00-00-33-0</b> Solder mount in .019 mounting hole	<b>4361-0-00-XX-00-00-33-0</b> Solder mount in .022 mounting hole	<b>4288-0-00-XX-00-00-33-0</b> Solder mount in .022 mounting hole
<b>4068</b>	<b>9113</b>	<b>9137</b>	<b>5137</b>
<b>4068-0-00-XX-00-00-33-0</b> Solder mount in .022 mounting hole	<b>9113-0-00-XX-00-00-38-0</b> Solder mount in .022 mounting hole	<b>9137-0-00-XX-00-00-38-0</b> Solder mount in .022 mounting hole	<b>5137-0-00-XX-00-00-38-0</b> Solder mount in .022 mounting hole
<p><b>SPECIFICATIONS</b></p> <p><b>PIN MATERIAL:</b> Brass Alloy 360, 1/2 Hard (Except where noted)</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p align="center"><b>ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0</b></p> <p><b>BASIC PART #</b>      <b>SPECIFY PIN FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> <li>◇ 21 20μ" GOLD OVER NICKEL (RoHS)</li> <li>◇ 34 50μ" GOLD OVER NICKEL (RoHS)</li> </ul>		

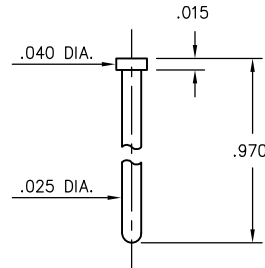
4209	5063	4965	6547
<p><b>4209-0-00-XX-00-00-33-0</b> Solder mount in .022 mounting hole</p>	<p><b>5063-0-00-XX-00-00-33-0</b> Solder mount in .024 mounting hole</p>	<p><b>4965-0-00-XX-00-00-33-0</b> Solder mount in .024 mounting hole</p>	<p><b>6547-0-00-XX-00-00-33-0</b> Solder mount in .024 mounting hole</p>
4071	8808	4964	9185
<p><b>4071-0-00-XX-00-00-33-0</b> Solder mount in .024 mounting hole</p>	<p><b>8808-0-00-XX-00-00-33-0</b> Solder mount in .024 mounting hole</p>	<p><b>4964-0-00-XX-00-00-33-0</b> Solder mount in .024 mounting hole</p>	<p><b>9185-0-00-XX-00-00-33-0</b> Solder mount in .026 mounting hole</p>
8257	5035	5240	2650
<p><b>8257-0-00-XX-00-00-33-0</b> Solder mount in .026 mounting hole</p>	<p><b>5035-0-00-XX-00-00-33-0</b> Solder mount in .029 mounting hole</p>	<p><b>5240-0-00-XX-00-00-33-0</b> Solder mount in .029 mounting hole</p>	<p><b>2650-0-00-XX-00-00-33-0</b> Solder mount in .029 mounting hole</p>
<p><b>SPECIFICATIONS</b></p> <p><b>PIN MATERIAL:</b> Brass Alloy 360, 1/2 Hard (Except where noted)</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 33 - 0</b></p> <p><b>BASIC PART #</b>      <b>SPECIFY PIN FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> <li>◇ 21 20μ" GOLD OVER NICKEL (RoHS)</li> <li>◇ 34 50μ" GOLD OVER NICKEL (RoHS)</li> </ul>		

**5062**



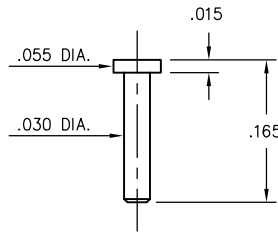
**5062-0-00-XX-00-00-33-0**  
Solder mount in .029 mounting hole

**8451**



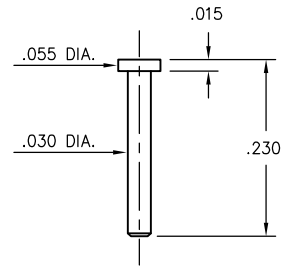
**8451-0-00-XX-00-00-33-0**  
Solder mount in .029 mounting hole

**6477**



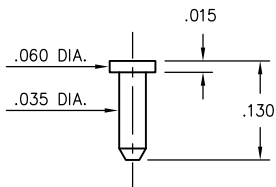
**6477-0-00-XX-00-00-38-0**  
Solder mount in .034 mounting hole

**4477**



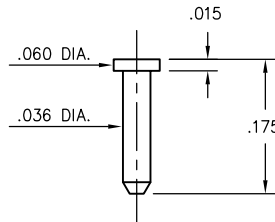
**4477-0-00-XX-00-00-33-0**  
Solder mount in .034 mounting hole

**4268**



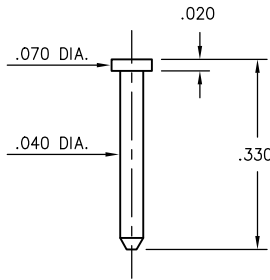
**4268-0-00-XX-00-00-33-0**  
Solder mount in .039 mounting hole

**9086**



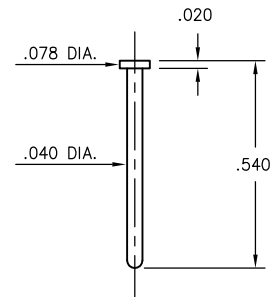
**9086-0-00-XX-00-00-33-0**  
Solder mount in .040 mounting hole

**8330**



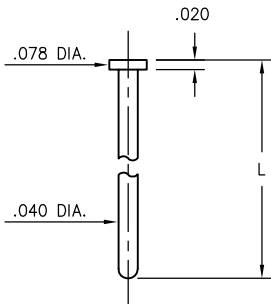
**8330-0-00-XX-00-00-38-0**  
Solder mount in .044 mounting hole

**9228**



**9228-0-00-XX-00-00-38-0**  
Solder mount in .044 mounting hole

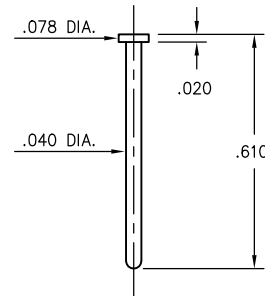
**6095**



**6095-X-00-XX-00-00-38-0**  
Solder mount in .044 mounting hole

Basic Part Number	Pin Length L
6095-0	.580
6095-1	.475

**6092**



**6092-0-00-XX-00-00-33-0**  
Solder mount in .044 mounting hole

**SPECIFICATIONS**

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
(Except where noted)

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0**

**BASIC PART #**

**SPECIFY PIN FINISH:**


- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50µ" GOLD OVER NICKEL (RoHS)



1179	9872	2381	9265
<p><b>1179-0-00-XX-00-00-33-0</b> Solder mount in .044 mounting hole</p>	<p><b>9872-0-00-XX-00-00-33-0</b> Solder mount in .049 mounting hole</p>	<p><b>2381-0-00-XX-00-00-33-0</b> Solder mount in .054 mounting hole</p>	<p><b>9265-0-00-XX-00-00-38-0</b> Solder mount in .063 mounting hole</p>

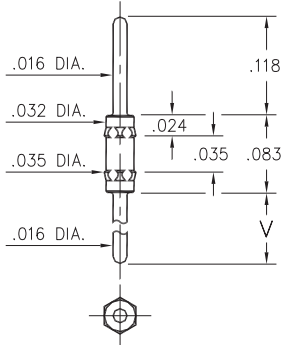
6142	9022	8086	
<p><b>6142-0-00-XX-00-00-33-0</b> Solder mount in .064 mounting hole</p>	<p><b>9022-0-00-XX-00-00-33-0</b> Solder mount in .066 mounting hole</p>	<p><b>8086-0-00-XX-00-00-33-0</b> Solder mount in .079 mounting hole</p>	

--	--	--	--

<p><b>SPECIFICATIONS</b></p> <p><b>PIN MATERIAL:</b> Brass Alloy 360, 1/2 Hard (Except where noted)</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0</b></p> <p><b>BASIC PART #</b> →</p> <p><b>SPECIFY PIN FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200μ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200μ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10μ" GOLD OVER NICKEL (RoHS)</li> <li>◇ 21 20μ" GOLD OVER NICKEL (RoHS)</li> <li>◇ 34 50μ" GOLD OVER NICKEL (RoHS)</li> </ul> 
--	--



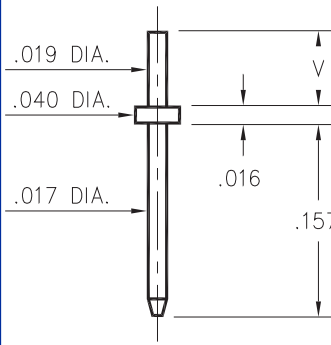
### 4006



Basic Part Number	Length V
4006-0	.118
4006-1	.188
4006-2	.288

**4006-X-00-XX-00-00-03-0**  
Hex Press-fit in .034 mounting hole

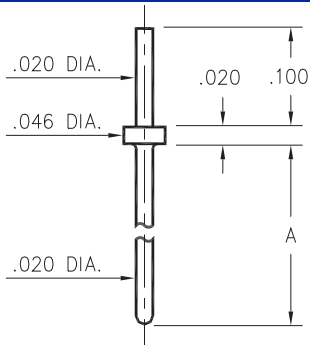
### 3121



Basic Part Number	Substrate Thickness	Length V
3121-1	.025	.061
3121-2	.040	.075

**3121-X-00-XX-00-00-08-0**  
Solder mount in .023 mounting hole  
Material is annealed.

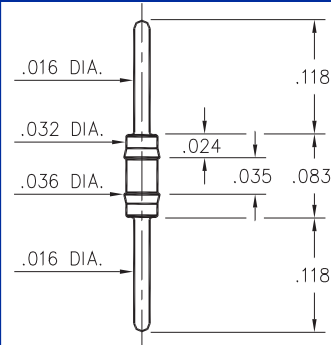
### 3128



Basic Part Number	Length A
3128-1	.250
3128-2	.425
3128-3	.525
3128-4	.550
3128-5	.930

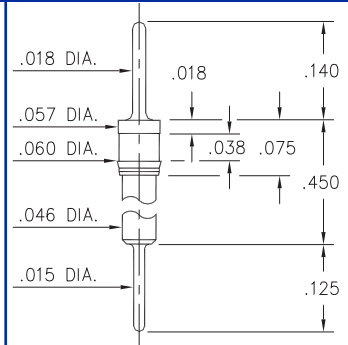
**3128-X-00-XX-00-00-08-0**  
Solder mount in .024 min. mounting hole

### 3006



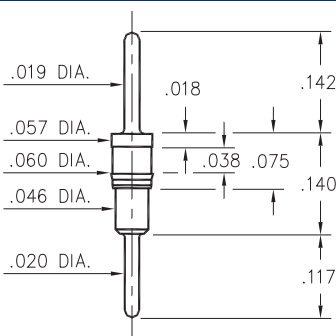
**3006-0-00-XX-00-00-03-0**  
Press-fit in .034 mounting hole

### 8885



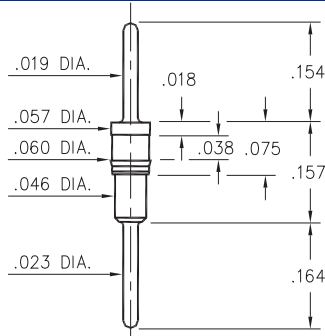
**8885-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 6218



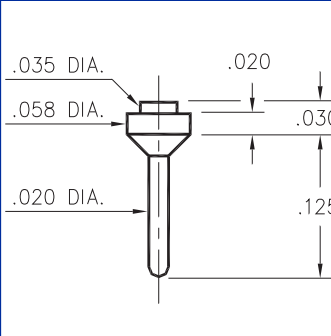
**6218-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 5012



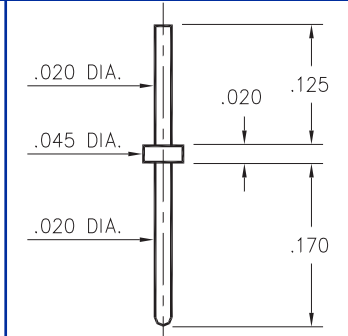
**5012-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 0508



**0508-0-00-XX-00-00-03-0**  
Surface Mount

### 9081



**9081-0-00-XX-00-00-08-0**  
Solder mount in .024 mounting hole

## SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
(Except where noted)

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0**

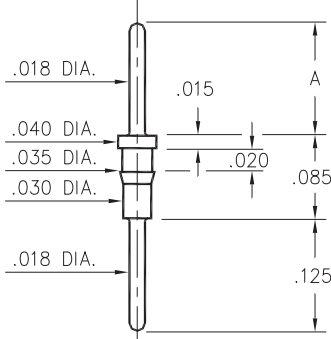
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50µ" GOLD OVER NICKEL (RoHS)



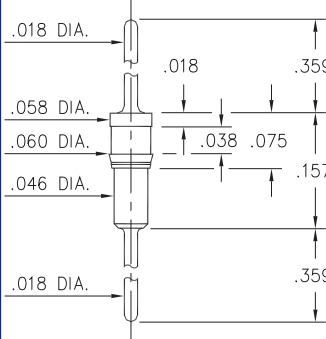
### 8685/9036



Basic Part Number	Length A
8685-0	.125
9036-0	.175

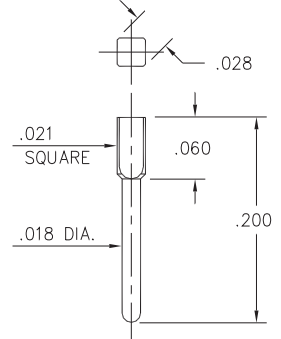
**XXXX-0-00-XX-00-00-03-0**  
 Press-fit in .033 mounting hole.  
 Pin material is Ph. Br. 544 (B2)

### 9051



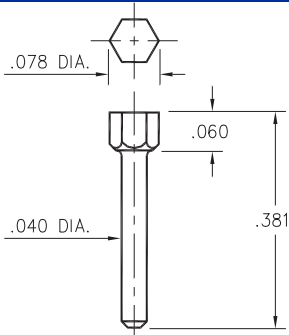
**9051-0-00-XX-00-00-03-0**  
 Press-fit in .057 mounting hole

### 8969



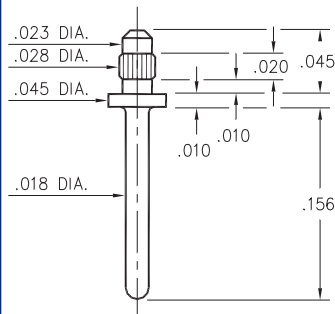
**8969-0-05-XX-00-00-03-0**  
 Square press-fit in .023 plated thru hole (use .7 mm drill prior to plating)

### 8979



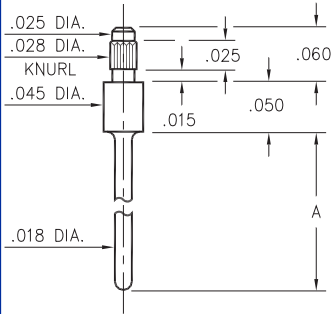
**8979-0-00-XX-00-00-03-0**  
 Hex press-fit in .074 plated thru hole

### 9159



**9159-0-00-XX-00-00-03-0**  
 Press-fit in .026 mounting hole

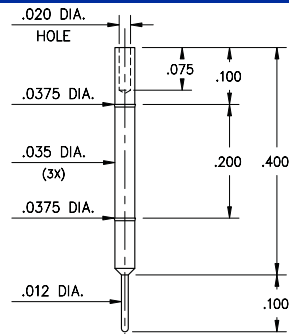
### 3155/5155



Basic Part Number	Length A
3155-0	.180
5155-0	.130

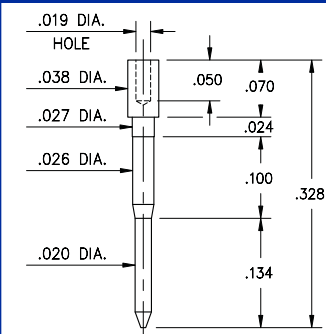
**X155-0-00-XX-00-00-03-0**  
 Press-fit in .026 mounting hole  
 Pin material is Ph. Br. 544 (B2)

### 4194



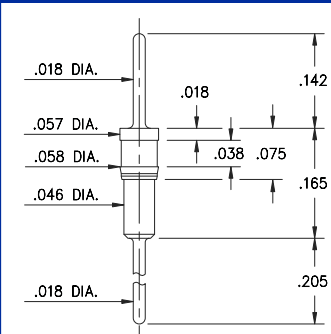
**4194-0-00-XX-00-00-08-0**  
 Wire termination and Press-fit in .036 hole

### 5556



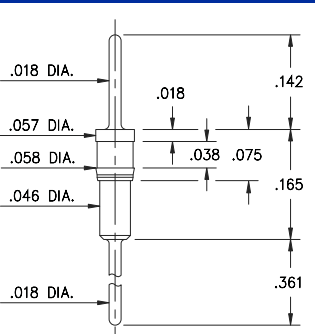
**5556-0-00-XX-00-00-38-0**  
 Wire termination

### 3790



**3790-0-00-XX-00-00-03-0**  
 Press-fit in .057 mounting hole

### 3796



**3796-0-00-XX-00-00-03-0**  
 Press-fit in .057 mounting hole

## SPECIFICATIONS

**PIN MATERIAL:**  
 Brass Alloy 360, 1/2 Hard  
 (Except where noted)

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
 LENGTHS: ±.005  
 DIAMETERS: ±.002  
 ANGLES: ± 2°

**ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0**

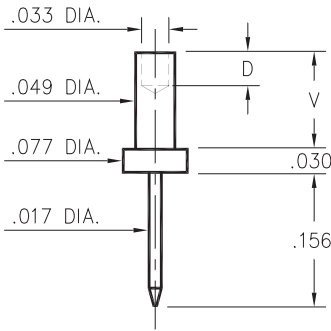
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50µ" GOLD OVER NICKEL (RoHS)



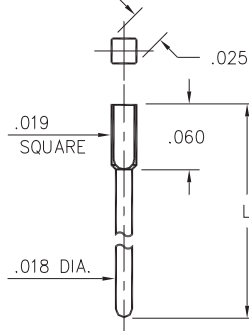
### 3116



Basic Part Number	Board Thickness	Length V	Length D
3116-1	.031	.051	.035
3116-2	.062	.082	.062
3116-3	.094	.113	.062
3116-4	.125	.145	.062

**3116-X-00-XX-00-00-08-0**  
Swage mount in .052 hole

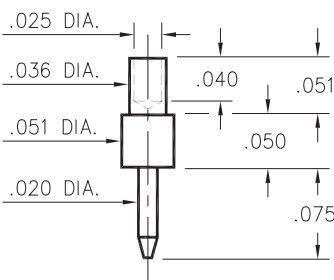
### 5435



Basic Part Number	Length L
5435-0	.303
5435-1	.200
5435-2	.413

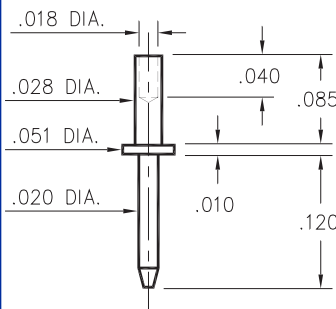
**5435-X-05-XX-00-00-03-0**  
Square press-fit in .022 plated thru hole

### 3135



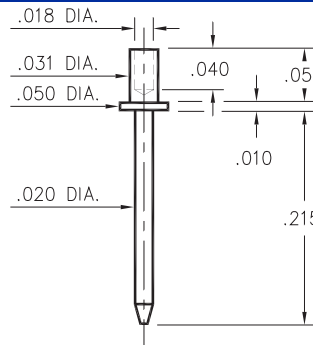
**3135-1-00-XX-00-00-08-0**  
Swage mount in .040 hole.  
For .031 thick board.

### 3210



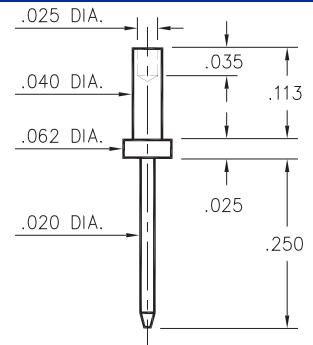
**3210-2-00-XX-00-00-08-0**  
Swage mount in .031 hole.  
For .062 thick board.

### 3129



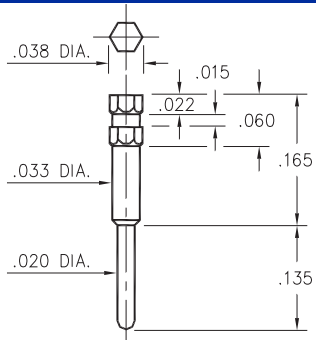
**3129-1-00-XX-00-00-08-0**  
Swage mount in .035 hole.  
For .031 thick board.

### 3147



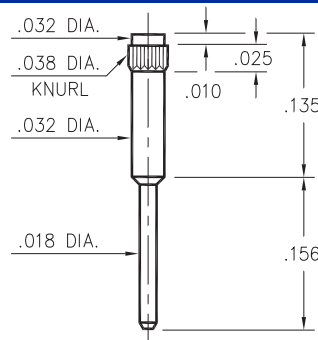
**3147-3-00-XX-00-00-08-0**  
Swage mount in .043 hole.  
For .094 thick board.

### 4366



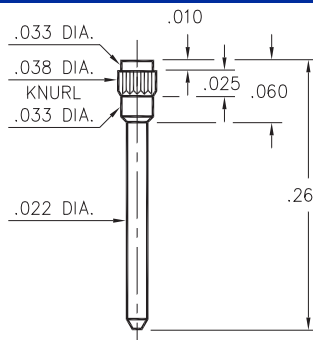
**4366-0-00-XX-00-00-03-0**  
Hex press-fit in .034 plated thru hole

### 1267



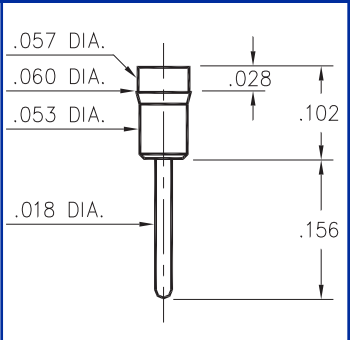
**1267-0-00-XX-00-00-03-0**  
Press-fit in .035 mounting hole

### 7827



**7827-0-00-XX-00-00-03-0**  
Press-fit in .035 mounting hole

### 1130



**1130-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole  
Pin material is Ph Br. 544 (B2)

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
(Except Swage pins which are annealed)

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0**

**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50µ" GOLD OVER NICKEL (RoHS)



<h3>1067</h3> <p><b>1067-X-00-XX-00-00-03-0</b> Press-fit in .042/.055 mounting hole</p>	<table border="1"> <thead> <tr> <th>Basic Part Number</th> <th>Knurl Dia. E</th> <th>Mounting Hole</th> </tr> </thead> <tbody> <tr> <td>1067-1</td> <td>.058</td> <td>.055</td> </tr> <tr> <td>1067-2</td> <td>.045</td> <td>.042</td> </tr> </tbody> </table>	Basic Part Number	Knurl Dia. E	Mounting Hole	1067-1	.058	.055	1067-2	.045	.042	<h3>3158</h3> <p><b>3158-0-00-XX-00-00-03-0</b> Press-fit in .023 mounting hole</p>	<h3>9000</h3> <p><b>9000-0-00-XX-00-00-03-0</b> Pentagonal press-fit in .025 plated thru hole</p>
Basic Part Number	Knurl Dia. E	Mounting Hole										
1067-1	.058	.055										
1067-2	.045	.042										

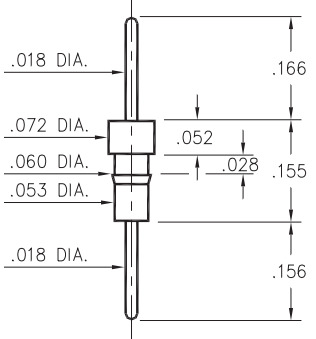
<h3>3157</h3> <p><b>3157-0-00-XX-00-00-03-0</b> Press-fit in .026 mounting hole</p>	<h3>0915</h3> <p><b>0915-0-00-XX-00-00-03-0</b> Press-fit in .057 mounting hole</p>	<h3>3154</h3> <p><b>3154-0-00-XX-00-00-03-0</b> Press-fit in .026 mounting hole Pin material is Ph Br 544 (B2)</p>	<h3>0542</h3> <p><b>0542-0-00-XX-00-00-03-0</b> Hex press-fit in .039 plated thru hole</p>
---	---	--	--

<h3>0522</h3> <p><b>0522-0-00-XX-00-00-03-0</b> Pentagonal press-fit in .042 plated thru hole</p>	<h3>0952</h3> <p><b>0952-0-00-XX-00-00-03-0</b> Press-fit in .056 mounting hole</p>	<h3>0257</h3> <p><b>0257-0-00-XX-00-00-03-0</b> Press-fit in .059 mounting hole</p>	<h3>8940</h3> <p><b>8940-0-00-XX-00-00-03-0</b> Press-fit in .057 mounting hole</p>
---	---	---	---

<h3>SPECIFICATIONS</h3> <p><b>PIN MATERIAL:</b> Brass Alloy 360, 1/2 Hard (Except where noted)</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0</b></p> <p><b>BASIC PART #</b>      <b>SPECIFY PIN FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200µ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200µ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10µ" GOLD OVER NICKEL (RoHS)</li> <li>◇ 21 20µ" GOLD OVER NICKEL (RoHS)</li> <li>◇ 34 50µ" GOLD OVER NICKEL (RoHS)</li> </ul>	
---	--	--

Downloaded from Arrow.com

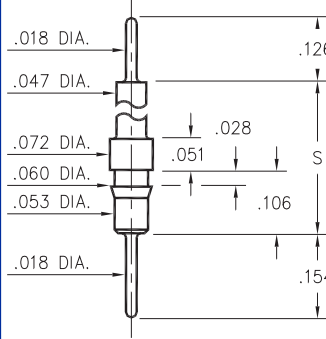
### 0504/0505



Basic Part Number	Pin Material
0504-0	Ph Br. 544
0505-0	Brass 360

**050X-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

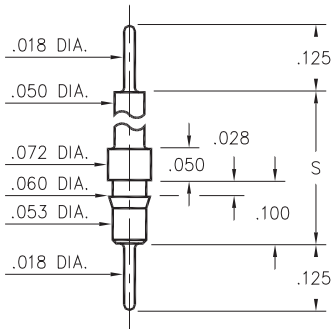
### 5510/5511



Basic Part Number	Standoff Height S
5510-0	.331
5511-0	.606

**551X-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

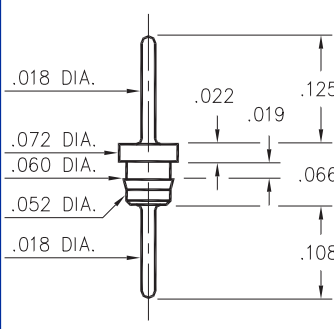
### 4259



Basic Part Number	Standoff Height S
4259-1	.210
4259-2	.335
4259-3	.585
4259-4	.835

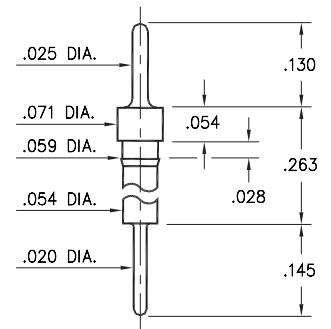
**4259-X-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 3516



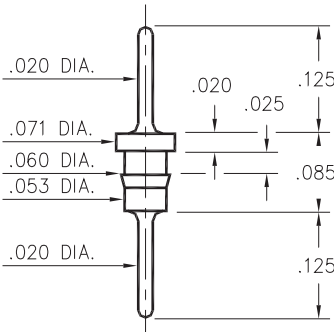
**3516-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 8859



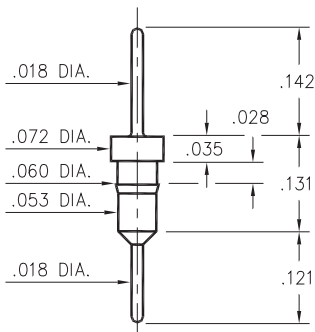
**8859-0-00-XX-00-00-03-0**  
Press-fit in .056 mounting hole

### 6585



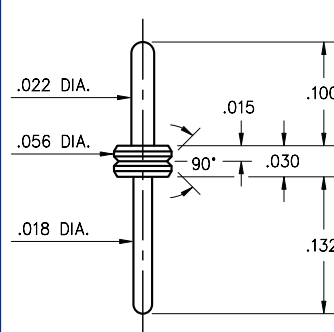
**6585-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole  
Pin material is Ph Br 544 (B2)

### 3404



**3404-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 3169



**3169-0-00-15-00-00-03-0**  
V-Groove Header Pin  
Also available on Kapton Tape

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
(Except where noted)

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0**

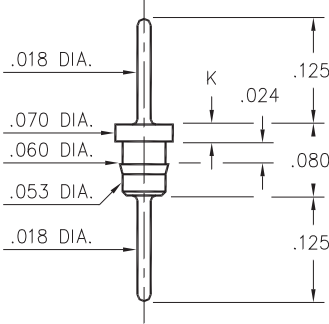
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50µ" GOLD OVER NICKEL (RoHS)



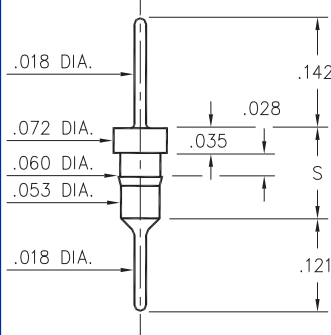
### 1752/6458



Basic Part Number	Length K
1752-0	.020
6458-0	.035

**XXXX-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

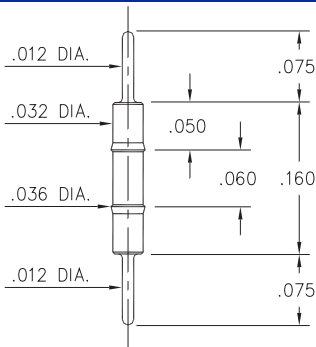
### 3413/8404



Basic Part Number	Length S
3413-0	.118
8404-0	.131

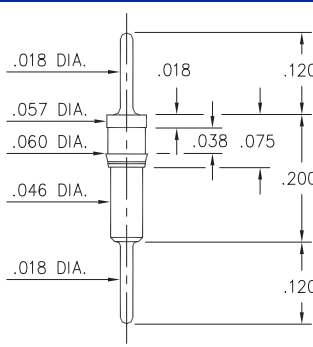
**X4XX-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 9075



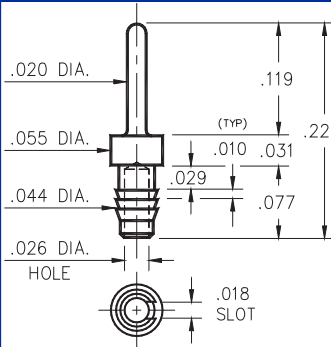
**9075-0-00-XX-00-00-03-0**  
Press-fit in .034 mounting hole

### 9218



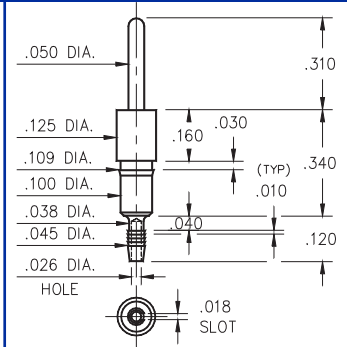
**9218-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 2617



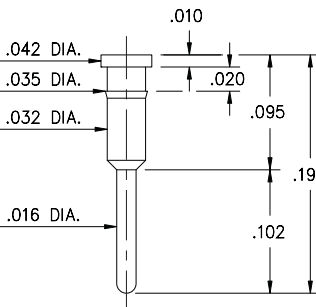
**2617-0-01-XX-00-00-03-0**  
Compliant press-fit in .040 ±.003 hole. For .060 → .100 thick board

### 8995



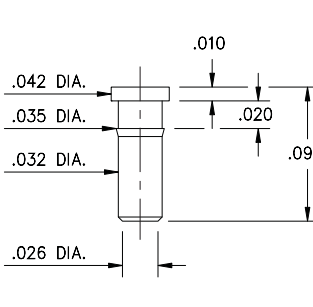
**8995-0-01-XX-00-00-03-0**  
Compliant press-fit in .040 ±.003 hole. For .060 → .100 thick board

### 1933



**1933-0-00-XX-00-00-03-0**  
Press-fit in .034 mounting hole

### 1935



**1935-0-00-XX-00-00-03-0**  
Press-fit in .034 mounting hole

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
(Except where noted)

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 03 - 0**

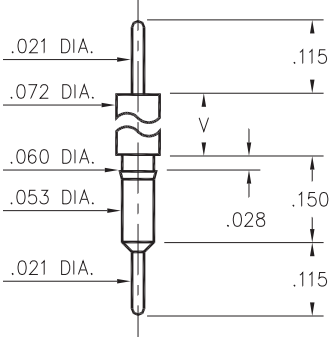
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



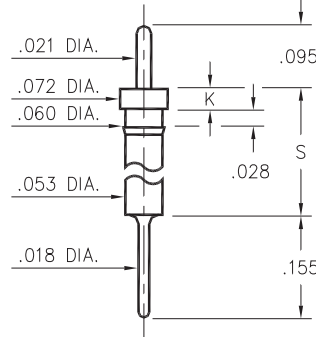
### 3406



Basic Part Number	Shoulder Height V
3406-0	.350

**340X-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

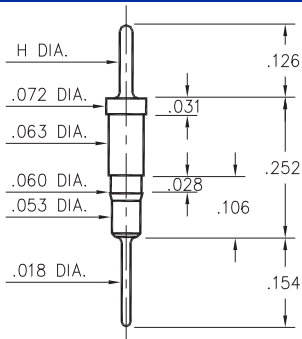
### 0315



Basic Part Number	Head Height K	Stand-off Height S
0315-0	.030	.190
0315-1	.040	.430

**0315-X-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole  
Pin material is Ph Br 544 (B2)

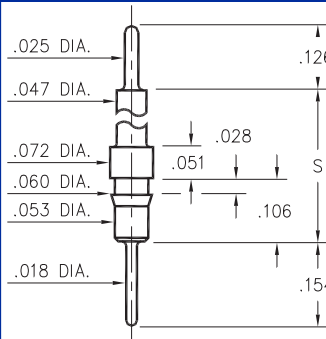
### 5503/5509



Basic Part Number	Pin Diameter H
5503-0	.025
5509-0	.018

**550X-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

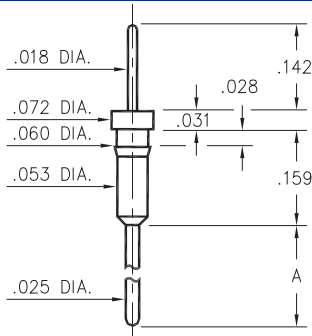
### 5504/5505



Basic Part Number	Standoff Height S
5504-0	.331
5505-0	.606

**550X-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

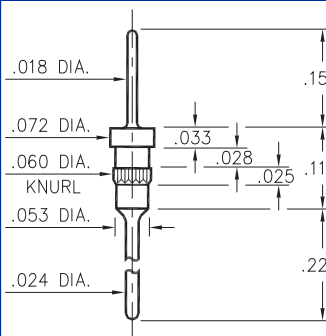
### 3409



Basic Part Number	Pin Length A
3409-1	.210
3409-2	.420

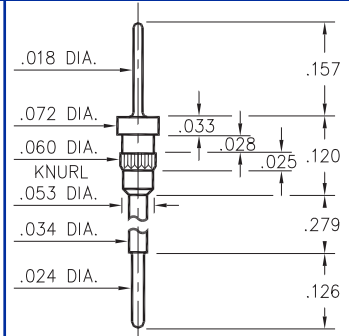
**3409-X-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 5011



**5011-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 5113



**5113-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
(Except where noted)

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°



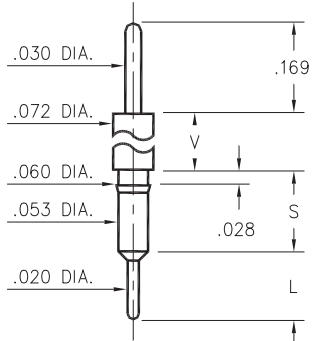
**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0**

**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50µ" GOLD OVER NICKEL (RoHS)

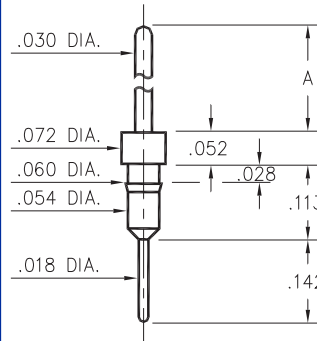
### 3400⇒3402/3405/3410



Basic Part Number	Shoulder Height V	Length S	Length L
3402-0	.052	.138	.115
3401-0	.100	.136	.115
3405-0	.169	.146	.115
3400-0	.481	.145	.115
3410-0	.934	.136	.124

**34XX-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

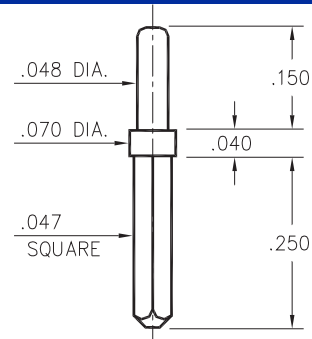
### 3411



Basic Part Number	Pin Length A
3411-0	.417
3411-1	.217

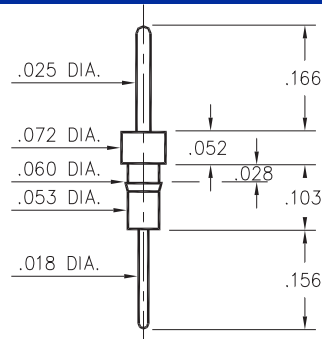
**3411-X-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 0600



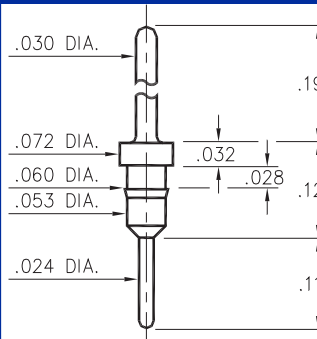
**0600-0-05-XX-00-00-01-0**  
Solder mount in .052 mounting hole

### 0290



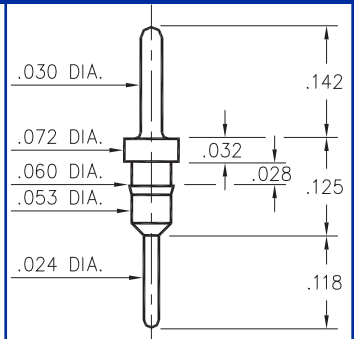
**0290-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 7007



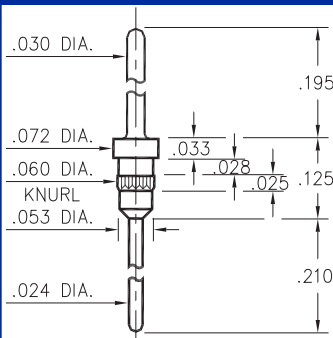
**7007-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 5016



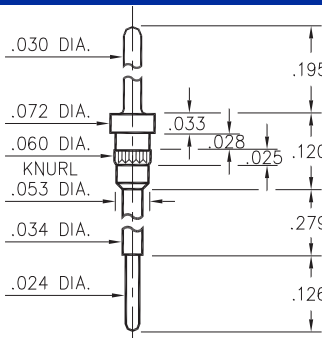
**5016-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 5005



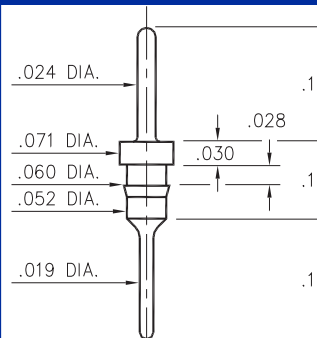
**5005-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 5107



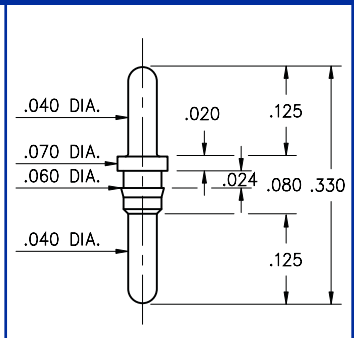
**5107-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 8919



**8919-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 3077



**3077-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
(Except where noted)

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0**

**BASIC PART #**

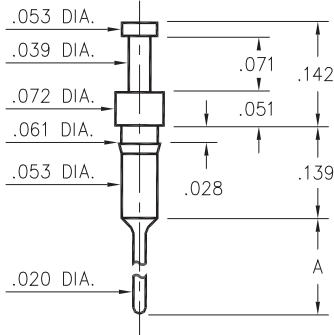
**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50µ" GOLD OVER NICKEL (RoHS)





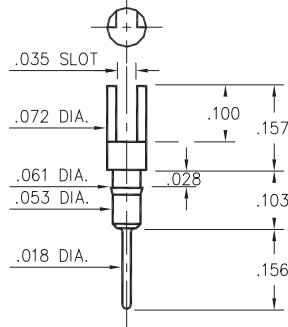
### 3408



Basic Part Number	Pin Length A
3408-1	.121
3408-2	.181

**3408-X-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

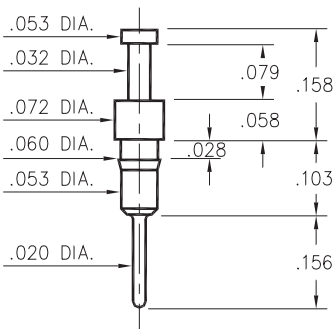
### 0270/0282



Basic Part Number	Pin Material
0270-0	Ph Br 544 (B2)
0282-0	Brass 360

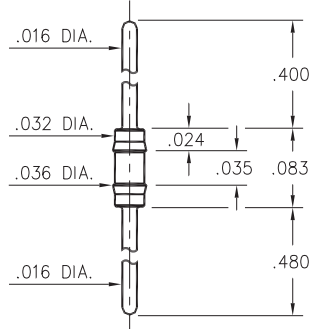
**02XX-0-01-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 0700



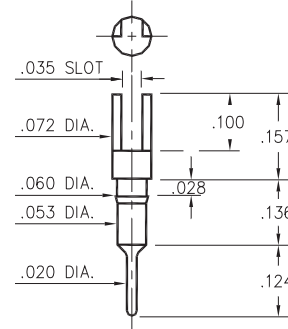
**0700-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 8006



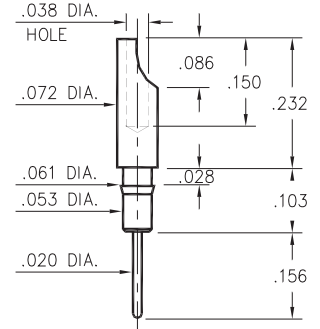
**8006-0-00-XX-00-00-03-0**  
Press-fit in .034 mounting hole

### 0265



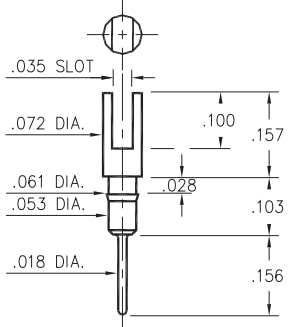
**0265-0-01-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 0275



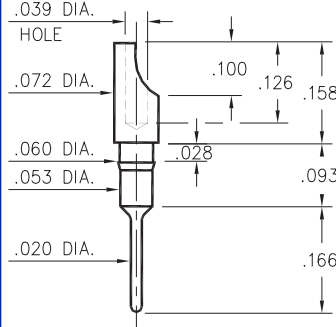
**0275-0-01-XX-00-00-03-0**  
Press-fit in .057 mounting hole  
Pin material is Ph. Br. 544 (B2)

### 0272



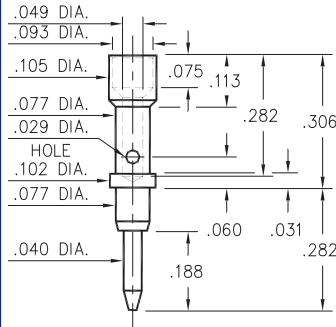
**0272-0-01-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 8000



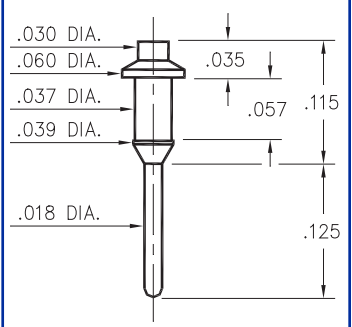
**8000-0-01-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 3603



**3603-0-07-XX-00-00-08-0**  
Annealed  
#20 Crimp barrel

### 9976



**9976-0-00-XX-00-00-03-0**  
Press-fit in .038 mounting hole

## SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
(Except where noted)

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0**

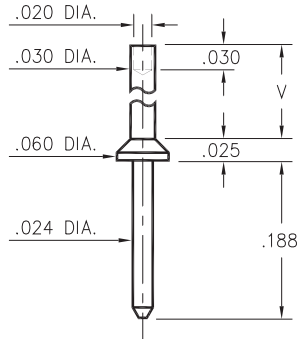
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50µ" GOLD OVER NICKEL (RoHS)



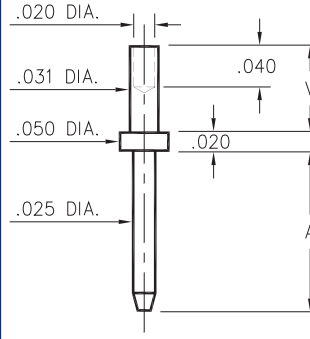
### 3117



Basic Part Number	Board Thickness	Length V
3117-1	.031	.047
3117-2	.062	.078
3117-3	.094	.110
3117-4	.125	.141

**3117-X-00-XX-00-00-08-0**  
Swage mount in .035 hole

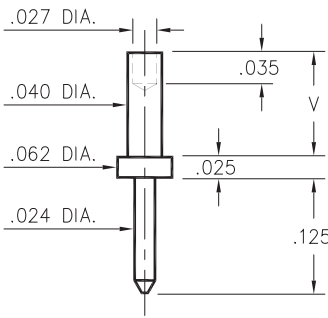
### 3114/3115



Basic Part Number	Board Thickness	Length A	Length V
3114-1	.031	.150	.051
3114-2	.062	.150	.082
3115-1	.031	.300	.051
3115-2	.062	.300	.082

**311X-X-00-XX-00-00-08-0**  
Swage mount in .035 mounting hole

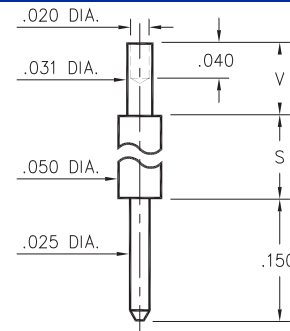
### 3112



Basic Part Number	Board Thickness	Length V
3112-1	.031	.051
3112-2	.062	.082
3112-3	.094	.113

**3112-X-00-XX-00-00-08-0**  
Swage mount in .043 hole

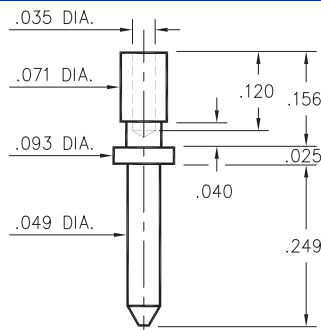
### 3118/3119



Basic Part Number	Board Thickness	Length S	Length V
3118-1	.031	.170	.051
3118-2	.062	.170	.082
3119-1	.031	.420	.051
3119-2	.062	.420	.082

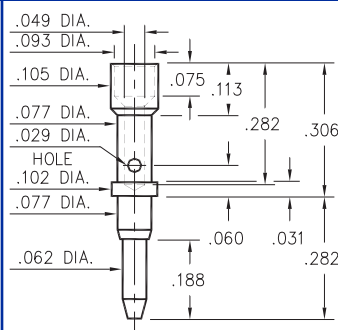
**311X-X-00-XX-00-00-08-0**  
Swage mount in .035 hole

### 3139



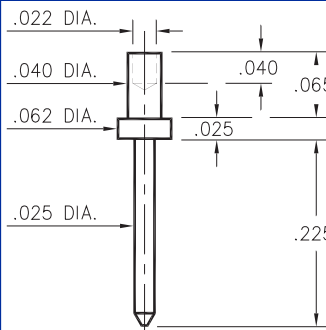
**3139-0-00-XX-00-00-08-0**  
Wire Termination

### 3602



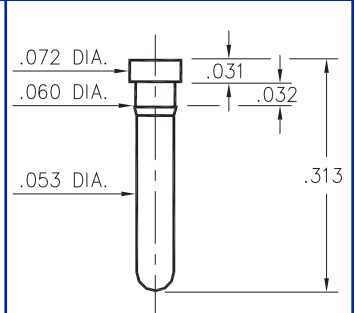
**3602-0-07-XX-00-00-08-0**  
Annealed  
#20 Crimp barrel

### 3131



**3131-1-00-XX-00-00-08-0**  
Swage mount in .043 hole

### 0912



**0912-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
( Except Swage pins which are annealed )

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0**

**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50µ" GOLD OVER NICKEL (RoHS)



<h3>5102</h3> <p><b>5102-0-00-XX-00-00-33-0</b> Press-fit in .057 mounting hole</p>	<h3>1502</h3> <p><b>1502-0-00-XX-00-00-03-0</b> Press-fit in .057 mounting hole</p>	<h3>2956-0</h3> <p><b>2956-0-00-XX-00-00-03-0</b> Surface mount</p>	<h3>2956-1</h3> <p><b>2956-1-00-XX-00-00-03-0</b> Surface mount</p>
---	---	---	---

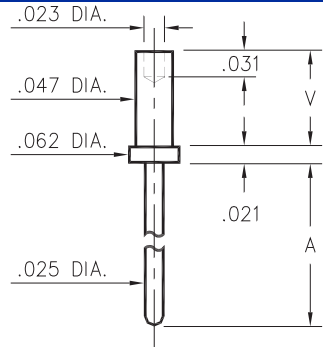
<h3>8876</h3> <p><b>8876-0-00-XX-00-00-03-0</b> Press-fit in .057 mounting hole</p>	<h3>0259/0286/1941</h3> <table border="1"> <thead> <tr> <th>Basic Part Number</th> <th>Length L</th> <th>Barb Dia. E</th> <th>Mounting Hole</th> </tr> </thead> <tbody> <tr> <td>0259-0</td> <td>.173</td> <td>.062</td> <td>.059</td> </tr> <tr> <td>0286-0</td> <td>.115</td> <td>.060</td> <td>.057</td> </tr> <tr> <td>1941-0</td> <td>.169</td> <td>.058</td> <td>.057</td> </tr> </tbody> </table> <p><b>02XX-0-00-XX-00-00-03-0</b> Press-fit in .057/.059 mounting hole</p>	Basic Part Number	Length L	Barb Dia. E	Mounting Hole	0259-0	.173	.062	.059	0286-0	.115	.060	.057	1941-0	.169	.058	.057	<h3>1938</h3> <p><b>1938-0-00-XX-00-00-03-0</b> Press-fit in .057 mounting hole</p>
Basic Part Number	Length L	Barb Dia. E	Mounting Hole															
0259-0	.173	.062	.059															
0286-0	.115	.060	.057															
1941-0	.169	.058	.057															

<h3>1940</h3> <p><b>1940-0-00-XX-00-00-03-0</b> Press-fit in .057 mounting hole</p>	<h3>1942</h3> <p><b>1942-0-00-XX-00-00-03-0</b> Press-fit in .057 mounting hole</p>	<h3>3024</h3> <p><b>3024-0-01-XX-00-00-03-0</b> Press-fit in .057 mounting hole</p>	<h3>3000</h3> <p><b>3000-0-00-XX-00-00-03-0</b> Press-fit in .061 mounting hole</p>
---	---	---	---

<h3>SPECIFICATIONS</h3> <p><b>PIN MATERIAL:</b> Brass Alloy 360, 1/2 Hard (Except Swage pins which are annealed)</p> <p><b>DIMENSION IN INCHES</b> <b>TOLERANCES ON:</b> LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p><b>ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0</b></p> <p><b>BASIC PART #</b>      <b>SPECIFY PIN FINISH:</b></p> <ul style="list-style-type: none"> <li>01 200µ" TIN/LEAD OVER NICKEL</li> <li>◇ 80 200µ" TIN OVER NICKEL (RoHS)</li> <li>◇ 15 10µ" GOLD OVER NICKEL (RoHS)</li> <li>◇ 21 20µ" GOLD OVER NICKEL (RoHS)</li> <li>◇ 34 50µ" GOLD OVER NICKEL (RoHS)</li> </ul>
---	--



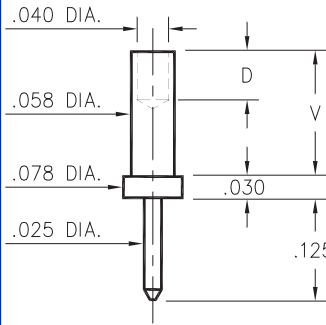
### 3130/3134/3151



Basic Part Number	Board Thickness	Length A	Length V
3134-1	.031	.079	.051
3134-2	.062	.079	.082
3134-3	.094	.079	.113
3134-4	.125	.079	.145
3130-1	.031	.179	.051
3130-2	.062	.179	.082
3130-3	.094	.179	.113
3130-4	.125	.179	.145
3151-1	.031	.479	.051
3151-2	.062	.479	.082
3151-3	.094	.479	.113
3151-4	.125	.479	.145

**31XX-X-00-XX-00-00-08-0**  
Swage mount in .052 hole

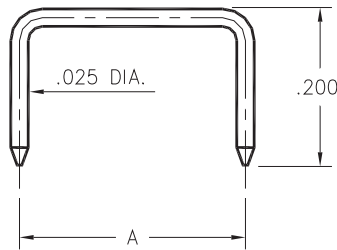
### 3113



Basic Part Number	Board Thickness	Length V	Depth D
3113-1	.031	.062	.040
3113-2	.062	.094	.062
3113-3	.094	.125	.062
3113-4	.125	.156	.062

**3113-X-00-XX-00-00-08-0**  
Swage mount in .062 hole

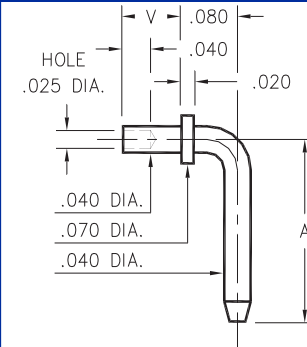
### 3360



Basic Part Number	Pin Centers A
3360-1	.200
3360-2	.250
3360-3	.300
3360-4	.400
3360-5	.500

**3360-X-14-XX-00-00-08-0**  
Shorting Jumper

### 3301 ⇒ 3304

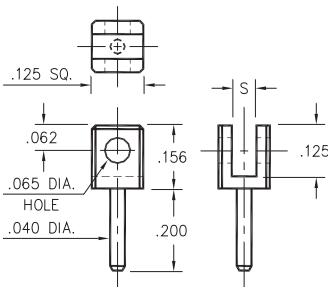


Basic Part Number	Pin Centers A
3301-X	.257
3302-X	.357
3303-X	.375
3304-X	.562

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

**330X-X-14-XX-00-00-08-0**  
Specify board thickness  
Swage mount in .043 hole

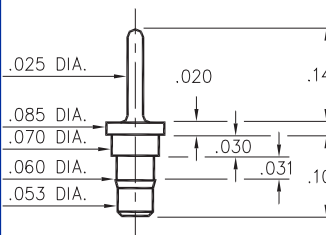
### 3620



Basic Part Number	Board Thickness	Slot S
3620-1	.031	.047
3620-2	.062	.075

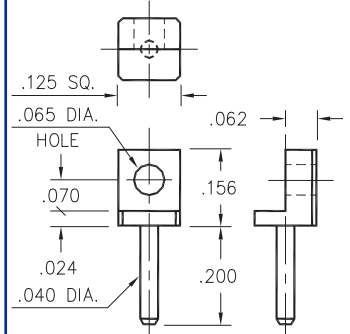
**3620-X-32-XX-00-00-08-0**  
Board edge rivet mount

### 0940



**0940-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 3621



**3621-0-32-XX-00-00-08-0**  
Board edge rivet mount

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
( Except Swage pins which are annealed )

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - XX - XX - 00 - 00 - XX - 0**

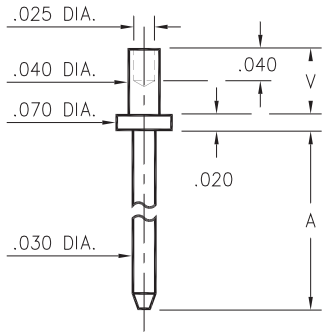
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50µ" GOLD OVER NICKEL (RoHS)



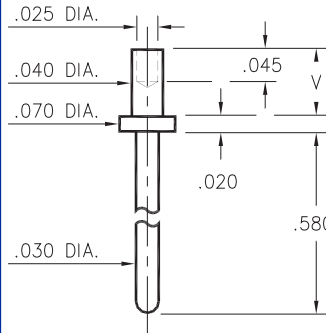
### 3110/3111



Basic Part Number	Board Thickness	Length A	Length V
3110-1	.031	.150	.051
3110-2	.062	.150	.082
3110-3	.094	.150	.113
3111-1	.031	.300	.051
3111-2	.062	.300	.082
3111-3	.094	.300	.113

**311X-X-00-XX-00-00-08-0**  
Swage mount in .043 hole

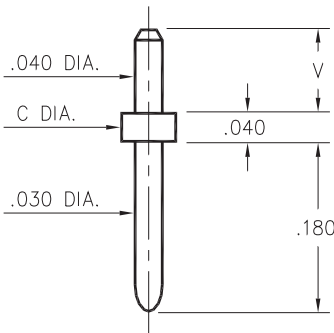
### 3150



Basic Part Number	Board Thickness	Length V
3150-1	.031	.051
3150-2	.062	.082

**3150-X-00-XX-00-00-08-0**  
Swage mount in .043 mounting hole

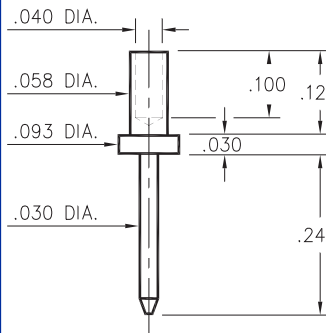
### 3136/3137



Basic Part Number	Flange Dia. C	Board Thickness	Length V
3136-1		.062	.082
3136-2	.078	.094	.110
3136-3		.125	.145
3137-1		.062	.082
3137-2		.094	.110
3137-3	.062	.125	.145
3137-4		.156	.185

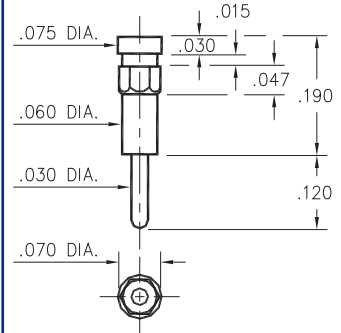
**313X-X-00-XX-00-00-08-0**  
Solder mount in .043 mounting hole

### 3148



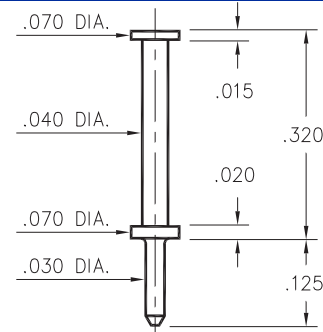
**3148-3-00-XX-00-00-08-0**  
Swage mount in .062 hole for .094 thick board

### 8815



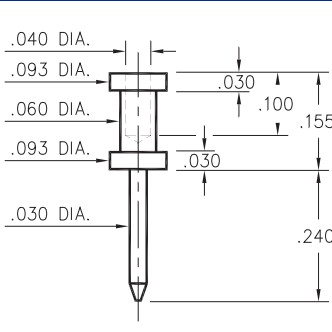
**8815-0-00-XX-00-00-03-0**  
Hex press-fit in .066 plated thru hole

### 6821



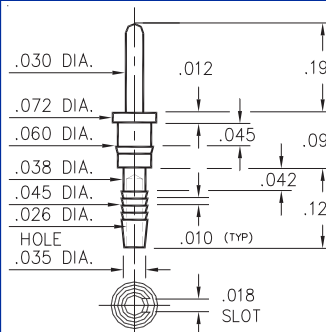
**6821-0-00-XX-00-00-08-0**  
Wire Termination

### 3132



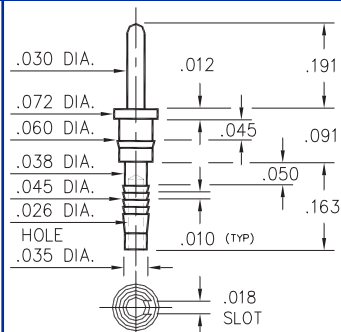
**3132-0-00-XX-00-00-08-0**  
Wire Termination  
Material is annealed

### 5601



**5601-0-01-XX-00-00-03-0**  
Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.

### 5602



**5602-0-01-XX-00-00-03-0**  
Compliant press-fit in .040±.003 plated hole. For .090→.130 thick board.

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
( Except Swage pins which are annealed )

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0**

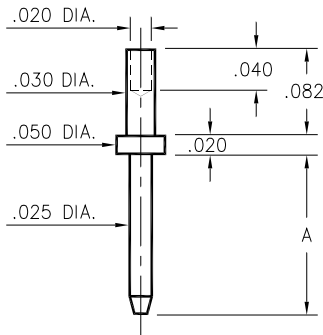
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



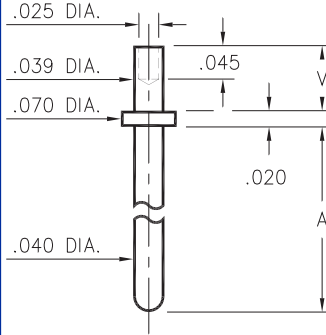
### 3120



Basic Part Number	Length A
3120-1	.205
3120-2	.250

**3120-X-00-XX-00-00-08-0**  
Swage mount in .034 mounting hole

### 3122 ⇒ 3153

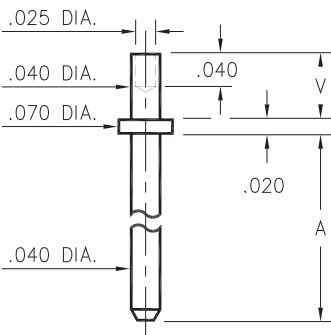


Basic Part Number	Pin Length A
3153-X	.180
3141-X	.230
3122-X	.280
3149-X	.380
3123-X	.580
3140-X	.780
3124-X	.880

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082

**31XX-X-00-XX-00-00-08-0**  
Swage mount in .043 hole

### 3101 ⇒ 3106

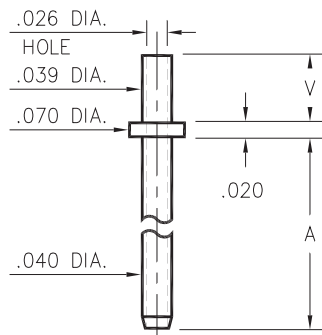


Basic Part Number	Pin Length A
3101-X	.150
3102-X	.188
3103-X	.300
3104-X	.500
3105-X	.750
3106-X	1.000

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

**310X-X-00-XX-00-00-08-0**  
Swage mount in .043 hole

### 3221 ⇒ 3223

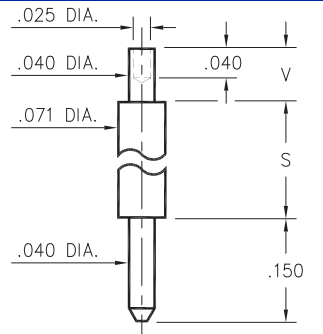


Basic Part Number	Pin Length A
3221-X	.100
3222-X	.150
3223-X	.300

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

**322X-X-00-XX-00-00-08-0**  
Swage mount in .043 hole

### 3125/3126

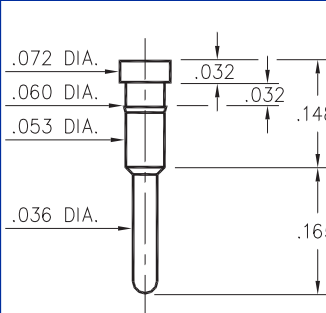


Basic Part Number	Pin Length S
3125-X	.170
3126-X	.420

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

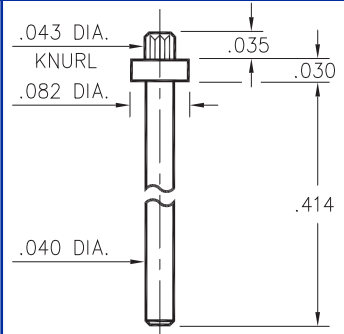
**312X-X-00-XX-00-00-08-0**  
Swage mount in .043 hole

### 0995



**0995-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

### 4526



**4526-0-00-XX-00-00-03-0**  
Press-fit in .040 mounting hole

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
(Except Swage pins which are annealed)

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0**

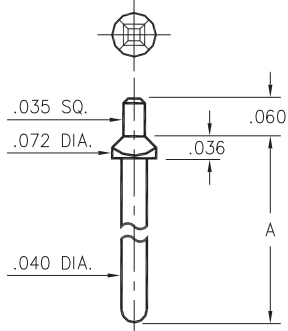
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



### 8600/8954/8955

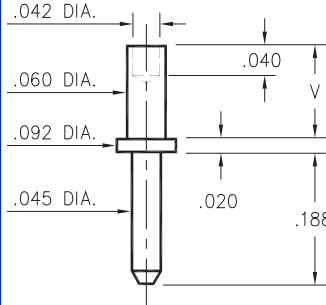


Basic Part Number	Pin Length A
8600-0	.400
8600-1	.850
8600-2	1.200
8954-0	.136
8955-0	.655

**8XXX-X-05-XX-00-00-03-0**

Square press-fit in .043 plated thru hole

### 3159

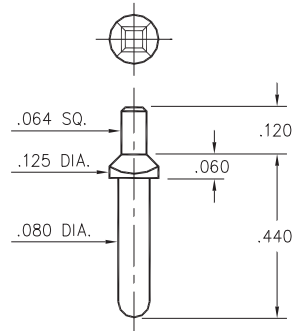


Basic Part Number	Board Thickness	Length V
3159-1	.031	.062
3159-2	.062	.094
3159-3	.094	.125
3159-4	.125	.156

**3159-X-00-XX-00-00-08-0**

Swage mount in .064 hole

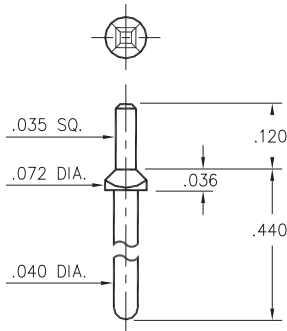
### 8952



**8952-0-05-XX-00-00-03-0**

Square press-fit in .087 plated thru hole

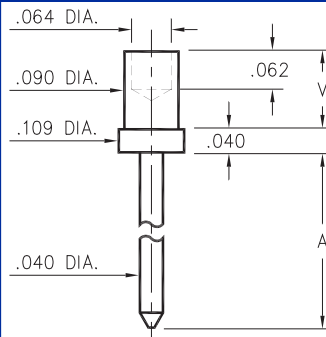
### 8953



**8953-0-05-XX-00-00-03-0**

Square press-fit in .047 plated thru hole

### 3230

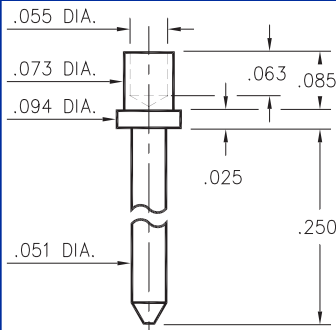


**3230-X-00-XX-00-00-08-0**

Swage mount in .094 hole

Basic Part Number	Board Thickness	Length A	Length V
3230-1	.031	.202	.065
3230-2	.062	.228	.095
3230-3	.094	.258	.125
3230-4	.125	.288	.155

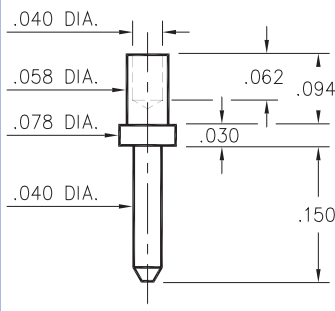
### 3146



**3146-2-00-XX-00-00-08-0**

Swage mount in .076 hole.  
For .062 thick board

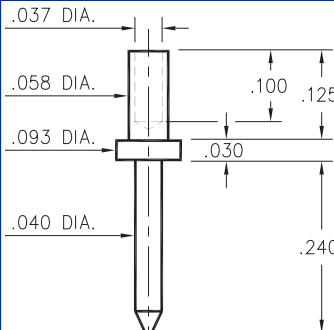
### 3142



**3142-2-00-XX-00-00-08-0**

Swage mount in .062 hole.  
For .062 thick board

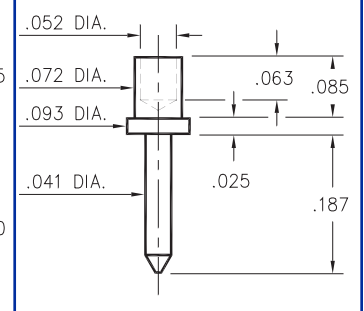
### 3232



**3232-3-00-XX-00-00-08-0**

Swage mount in .062 hole.  
For .094 thick board

### 3145



**3145-2-00-XX-00-00-08-0**

Swage mount in .076 hole.  
For .062 thick board

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
( Except Swage pins which are annealed )

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0**

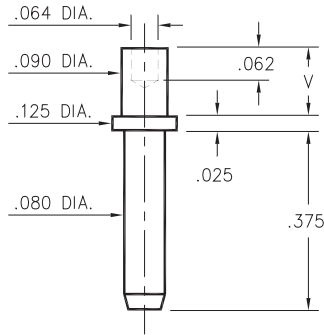
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



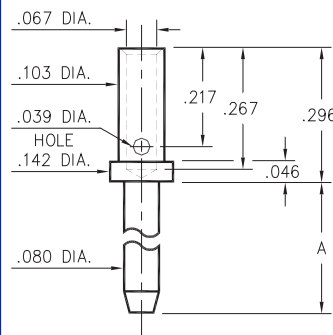
### 3231



Basic Part Number	Board Thickness	Length V
3231-2	.062	.094
3231-3	.094	.125
3231-4	.125	.156

**3231-X-00-XX-00-00-08-0**  
Swage mount in .094 hole.

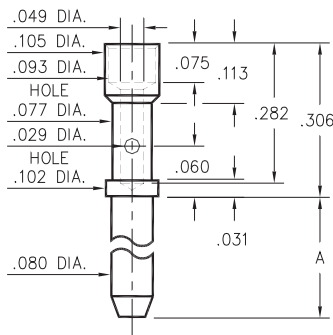
### 3609



Basic Part Number	Pin Length A
3609-1	.200
3609-2	.375
3609-3	.500

**3609-X-07-XX-00-00-08-0**  
#16A Crimp barrel

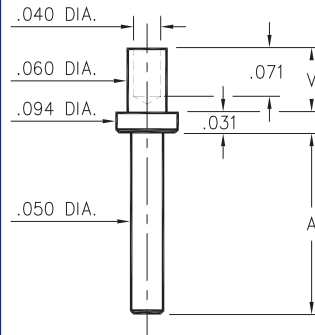
### 3601



Basic Part Number	Pin Length A
3601-1	.200
3601-2	.375
3601-3	.500

**3601-X-07-XX-00-00-08-0**  
#20A Crimp barrel

### 3133/3138/3152

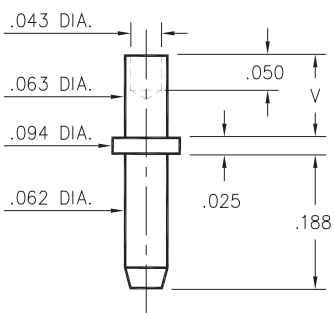


Basic Part Number	Pin Length A
3152-X	.094
3133-X	.219
3138-X	.282

- X -	Board Thickness	Length V
1	.031	.063
2	.062	.094
3	.094	.125
4	.125	.156

**31XX-X-00-XX-00-00-08-0**  
Specify board thickness  
Swage mount in .064 hole

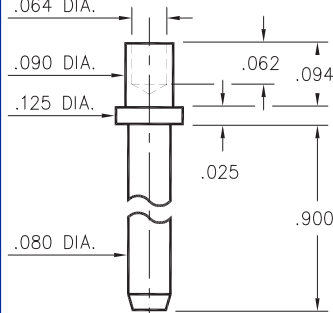
### 3144



Basic Part Number	Board Thickness	Length V
3144-1	.031	.053
3144-2	.062	.084
3144-3	.094	.115

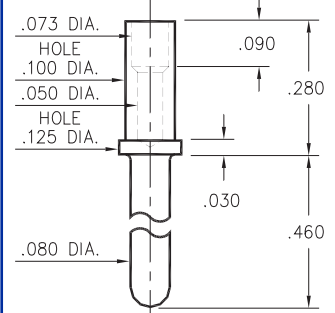
**3144-X-00-XX-00-00-08-0**  
Swage mount in .067 hole.

### 3233



**3233-2-00-XX-00-00-08-0**  
Swage mount in .094 hole.  
For .062 thick board.

### 0520



**0520-0-00-XX-00-00-03-0**  
Annealed  
#18 Gage crimp barrel

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
( Except Swage pins which are annealed )

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0**

**BASIC PART #**

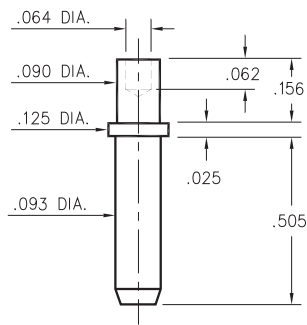
**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50µ" GOLD OVER NICKEL (RoHS)



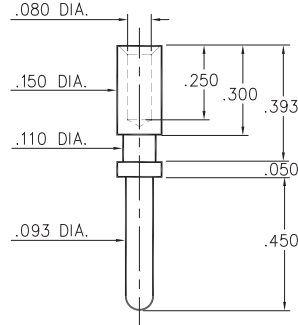


### 5231



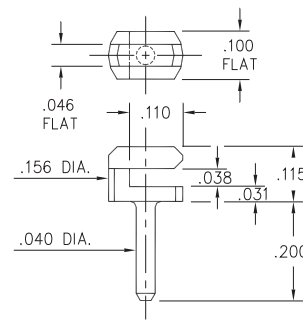
**5231-0-00-XX-00-00-38-0**  
Swage mount in .094 hole.  
For .125 thick board.

### 9092



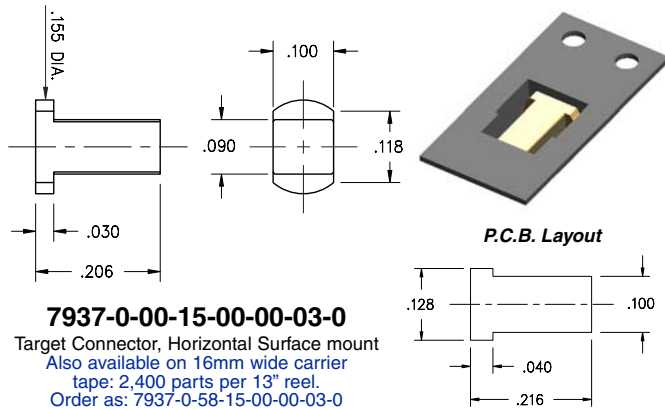
**9092-0-00-XX-00-00-38-0**  
Wire Termination.

### 7310



**7310-0-01-XX-00-00-08-0**  
Board edge press-fit

### 7937



#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
( Except Swage pins which are annealed )

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0**

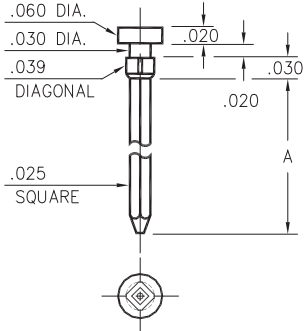
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50µ" GOLD OVER NICKEL (RoHS)



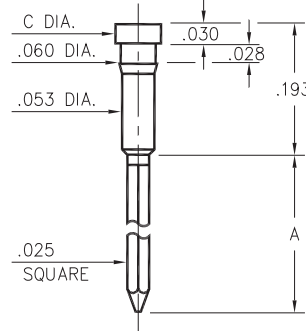
5275



Basic Part Number	# of Wraps	Wrapost Length A
5275-1	1	.370
5275-2	2	.470
5275-3	3	.610

**5275-X-05-XX-00-00-01-0**  
Square press-fit in .035 plated thru hole

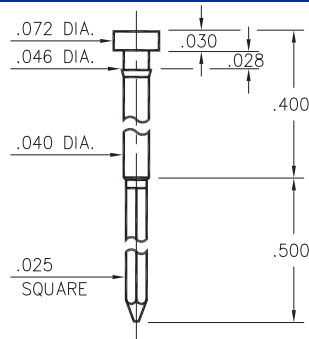
1010 ⇒ 1012/1020 ⇒ 1022



Basic Part Number	# of Wraps	Wrapost Length A	Head Dia. C
1012-1	1	.260	.072
1011-2	2	.360	
1010-3	3	.500	
1022-1	1	.260	.062
1021-2	2	.360	
1020-3	3	.500	

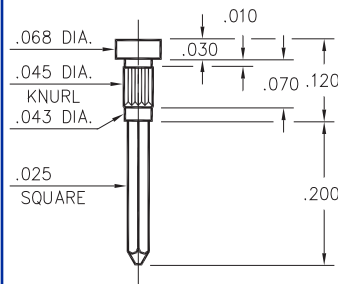
**10XX-X-05-XX-00-00-01-0**  
Press-fit in .057 mounting hole

1215



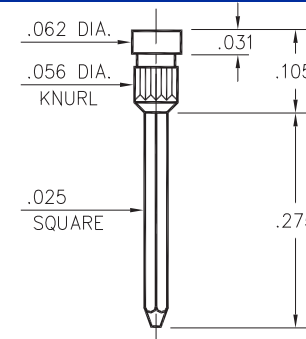
**1215-3-05-XX-00-00-01-0**  
Press-fit in .043 mounting hole

1124



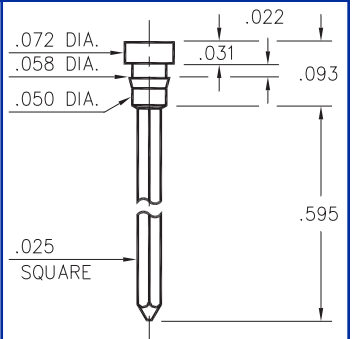
**1124-0-05-XX-00-00-01-0**  
Press-fit in .043 mounting hole

1210



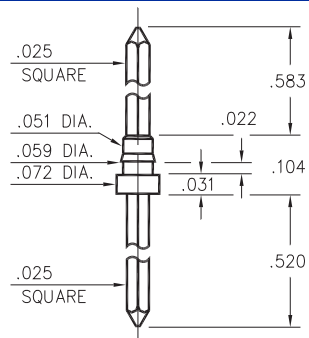
**1210-0-05-XX-00-00-01-0**  
Press-fit in .053 mounting hole

1222



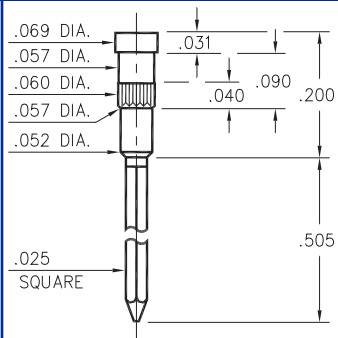
**1222-0-05-XX-00-00-01-0**  
Press-fit in .055 mounting hole

1221



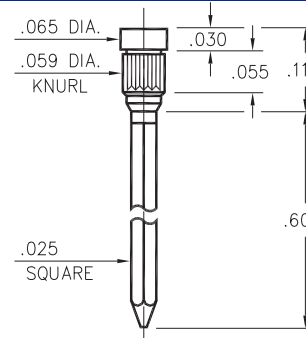
**1221-0-05-XX-00-00-01-0**  
Press-fit in .056 mounting hole

1110



**1110-3-05-XX-00-00-01-0**  
Press-fit in .057 mounting hole

1094



**1094-0-05-XX-00-00-01-0**  
Press-fit in .056 mounting hole

**SPECIFICATIONS**

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 05 - XX - 00 - 00 - 01 - 0**

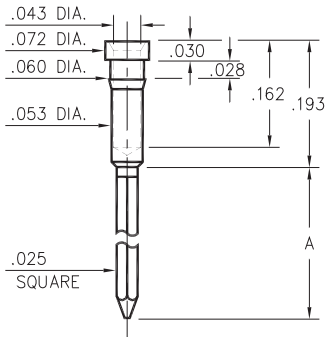
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)



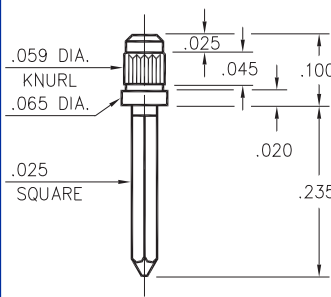
### 1030 ⇒ 1032



Basic Part Number	# of Wraps	Wrap Length A
1032-1	1	.260
1031-2	2	.360
1030-3	3	.500

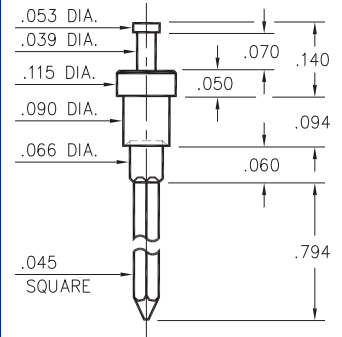
**103X-X-05-XX-00-00-01-0**  
Press-fit in .057 mounting hole

### 1216



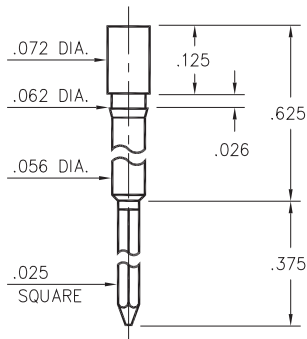
**1216-0-05-XX-00-00-01-0**  
Press-fit in .056 mounting hole

### 1095



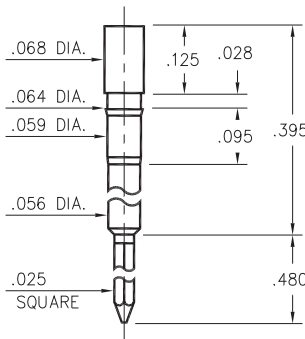
**1095-0-05-XX-00-00-01-0**  
Swage mount in .094 hole  
For .062 thick board

### 1214



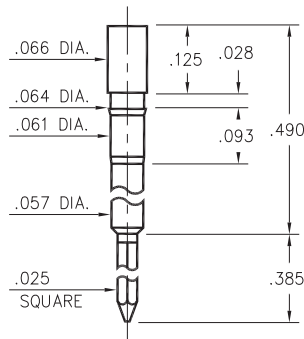
**1214-0-05-XX-00-00-01-0**  
Press-fit in .059 mounting hole

### 1212



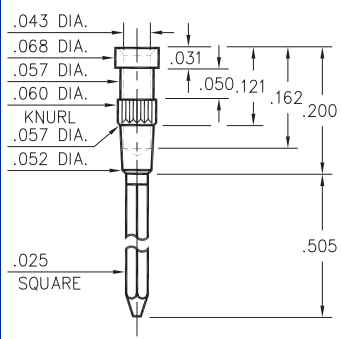
**1212-0-05-XX-00-00-01-0**  
Press-fit in .061 mounting hole

### 1213



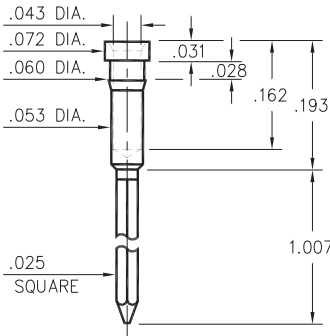
**1213-0-05-XX-00-00-01-0**  
Press-fit in .061 mounting hole

### 0318



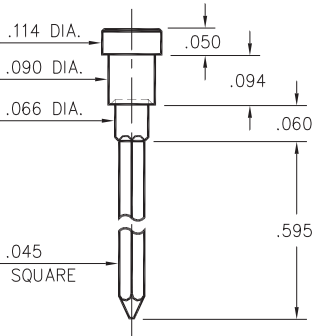
**0318-3-05-XX-00-00-01-0**  
Press-fit in .057 mounting hole

### 1302



**1302-0-05-XX-00-00-01-0**  
Press-fit in .057 mounting hole

### 1097



**1097-0-05-XX-00-00-01-0**  
Swage mount in .094 hole  
for .062 thick board

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 05 - XX - 00 - 00 - 01 - 0**

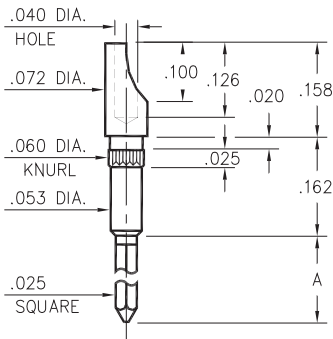
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)



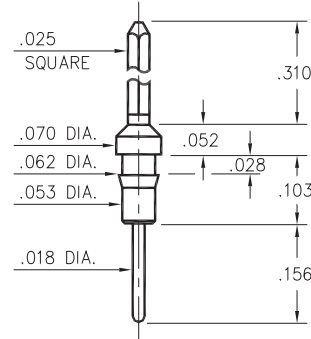
### 8301



**8301-X-24-XX-00-00-01-0**  
Press-fit in .057 mounting hole

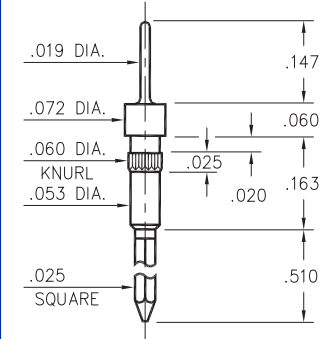
Basic Part Number	# of Wraps	Wrap Length A
8301-2	2	.370
8301-3	3	.510

### 1083



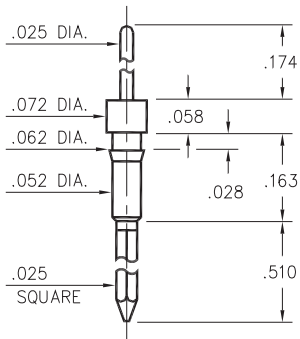
**1083-0-05-XX-00-00-01-0**  
Press-fit in .059 mounting hole

### 5301



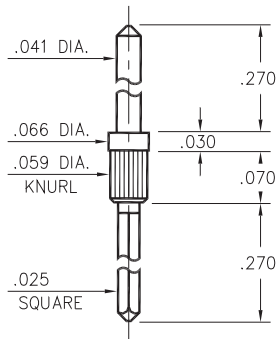
**5301-0-05-XX-00-00-01-0**  
Press-fit in .057 mounting hole

### 1090



**1090-0-05-XX-00-00-01-0**  
Press-fit in .059 mounting hole

### 8608



**8608-0-05-XX-00-00-01-0**  
Press-fit in .056 mounting hole

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 01 - 0**

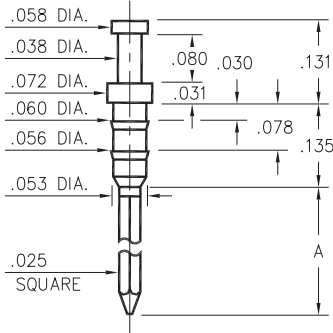
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)



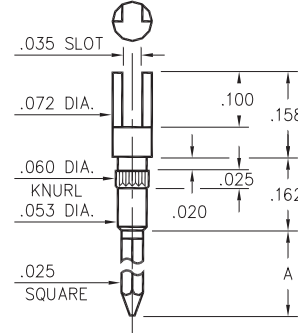
### 1096



Basic Part Number	# of Wraps	Wrapost Length A
1096-2	2	.381
1096-3	3	.527

**1096-X-05-XX-00-00-01-0**  
Press-fit in .057 mounting hole

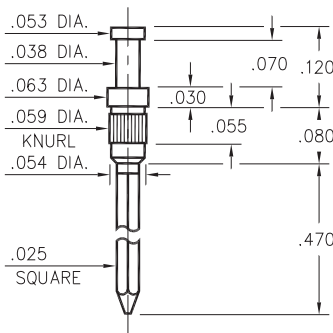
### 1106



Basic Part Number	# of Wraps	Wrapost Length A
1106-2	2	.370
1106-3	3	.510

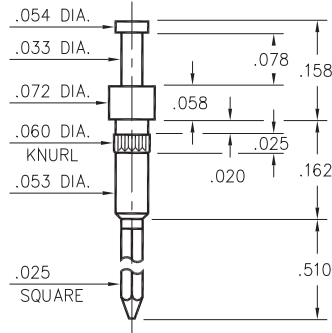
**1106-X-23-XX-00-00-01-0**  
Press-fit in .057 mounting hole

### 1093



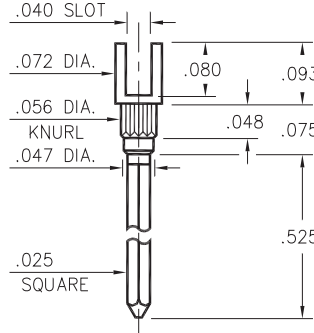
**1093-0-05-XX-00-00-01-0**  
Press-fit in .056 mounting hole

### 0730



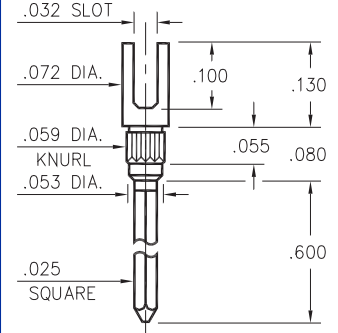
**0730-3-05-XX-00-00-01-0**  
Press-fit in .057 mounting hole

### 1122



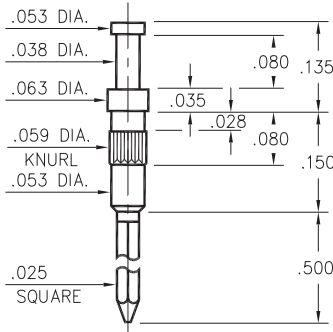
**1122-0-22-XX-00-00-01-0**  
Press-fit in .053 mounting hole

### 1064



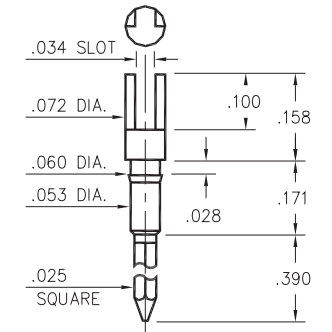
**1064-0-23-XX-00-00-01-0**  
Press-fit in .056 mounting hole

### 1092



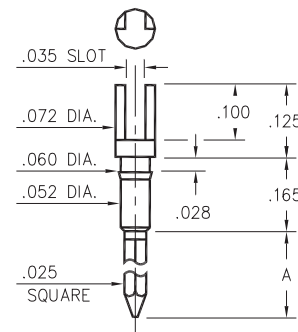
**1092-0-05-XX-00-00-01-0**  
Press-fit in .056 mounting hole

### 1068



**1068-0-23-XX-00-00-01-0**  
Press-fit in .057 mounting hole

### 1070 ⇒ 1072



**107X-X-23-XX-00-00-01-0**  
Press-fit in .057 mounting hole

Basic Part Number	# of Wraps	Wrapost Length A
1072-1	1	.260
1071-2	2	.370
1070-3	3	.510

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 01 - 0**

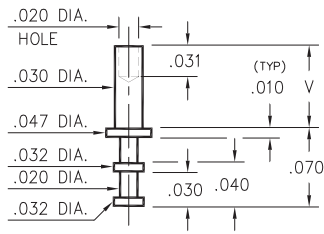
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 15 10µ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20µ" GOLD OVER NICKEL (RoHS)



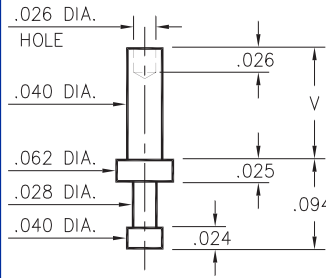
## 2111



- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115

**2111-X-00-XX-00-00-07-0**  
Swage mount in .033 hole

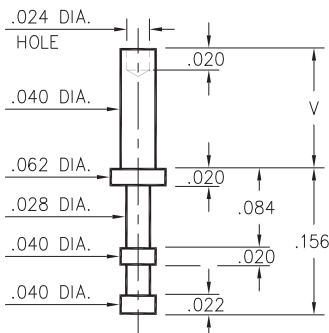
## 2113



- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

**2113-X-00-XX-00-00-07-0**  
Swage mount in .043 hole

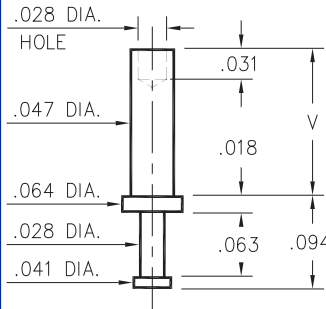
## 2108



- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

**2108-X-00-XX-00-00-07-0**  
Swage mount in .043 hole

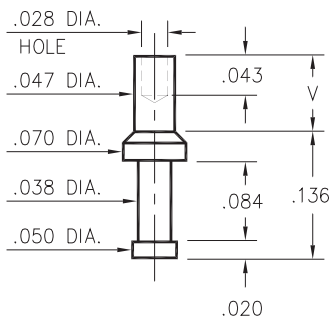
## 2102



- X -	Board Thickness	Length V
5	.016	.035
1	.031	.054
2	.062	.084
3	.094	.115
4	.125	.147

**2102-X-00-XX-00-00-07-0**  
Swage mount in .052 hole

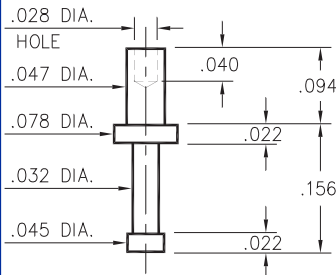
## 2109



- X -	Board Thickness	Length V
1	.031	.052
2	.062	.085

**2109-X-00-XX-00-00-07-0**  
Swage mount in .052 hole

## 2324



**2324-2-00-XX-00-00-07-0**  
Swage mount in .052 hole  
for .062 thick board

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0**

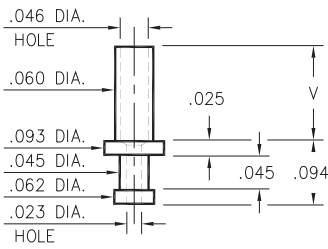
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



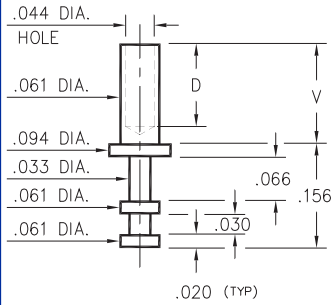
## 2312



- X -	Board Thickness	Length V
1	.031	.053
2	.062	.094
3	.094	.115
4	.125	.147

**2312-X-00-XX-00-00-07-0**  
Swage mount in .064 hole

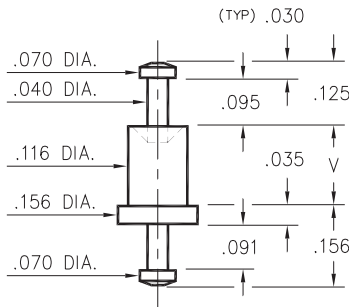
## 2308



- X -	Board Thickness	Length V	Depth D
1	.031	.054	.036
2	.062	.084	.066
3	.094	.115	.096
4	.125	.147	.126

**2308-X-00-XX-00-00-07-0**  
Swage in .064 mount hole

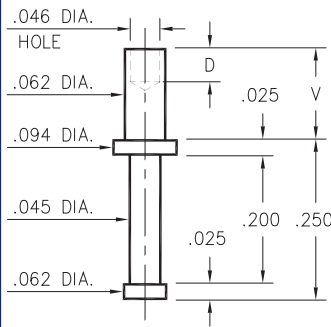
## 2707



- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

**2707-X-00-XX-00-00-07-0**  
Swage mount in .120 hole

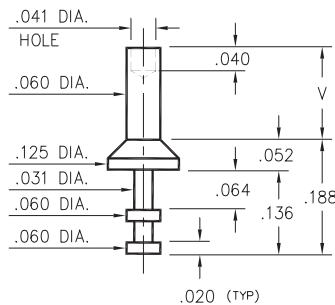
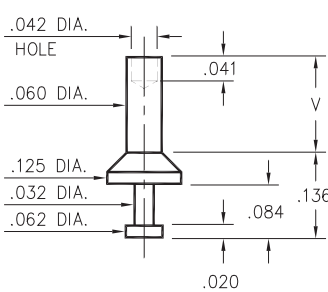
## 2329



- X -	Board Thickness	Length V	Depth D
1	.031	.045	.045
2	.062	.094	.062
3	.094	.125	
4	.125	.156	

**2329-X-00-XX-00-00-07-0**  
Swage mount in .067 hole

## 2510/2513



- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

**2510-X-00-XX-00-00-07-0**  
Swage mount in .064 hole

**2513-X-00-XX-00-00-07-0**  
Swage mount in .064 hole

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0**

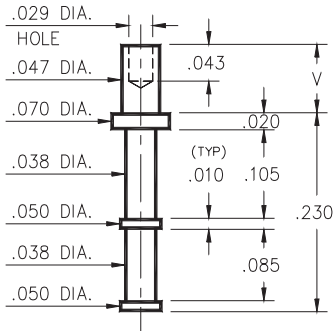
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 44 300µ" SILVER OVER COPPER (RoHS)
- ◇ 50 300µ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



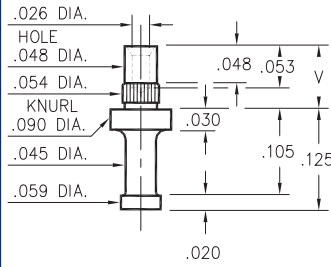
## 2110



**2110-X-00-XX-00-00-07-0**  
Swage mount in .052 hole

- X -	Board Thickness	Length V
1	.031	.049
2	.062	.082

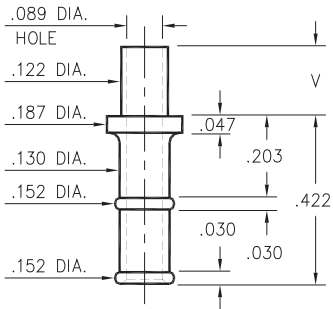
## 2333



**2333-X-00-XX-00-00-07-0**  
Press-fit and swage in .052 mounting hole

- X -	Board Thickness	Length V
1	.078	.103
2	.062	.087
3	.047	.072

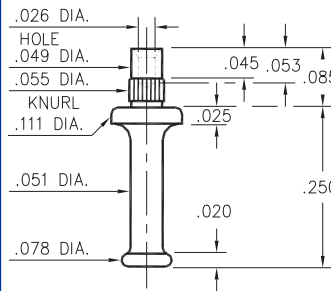
## 2821



**2821-X-00-XX-00-00-07-0**  
Swage mount in .125 hole

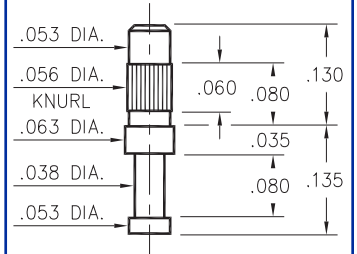
- X -	Board Thickness	Length V
2	.062	.109
3	.094	.141
4	.125	.172

## 2533



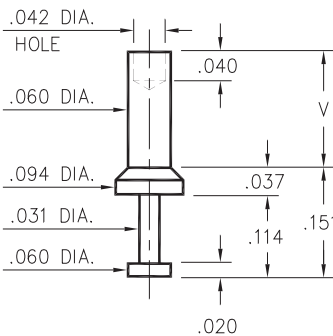
**2533-0-00-XX-00-00-07-0**  
Press-fit & swage in .052 mtg. hole. For .062 thick board

## 2101

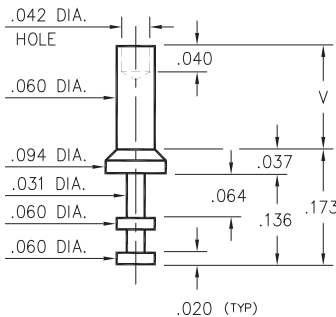


**2101-3-00-XX-00-00-07-0**  
Press-fit in .053 mtg. hole. For .062 to .094 thick board

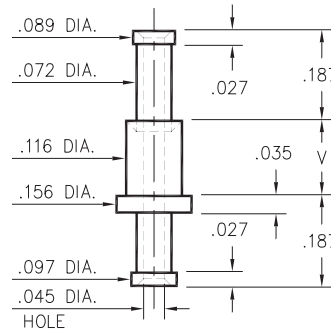
## 2316/2317/2708



**2316-X-00-XX-00-00-07-0**  
Swage mount in .064 hole



**2317-X-00-XX-00-00-07-0**  
Swage mount in .064 hole



**2708-X-00-XX-00-00-07-0**  
Swage mount in .120 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0**

**BASIC PART #**

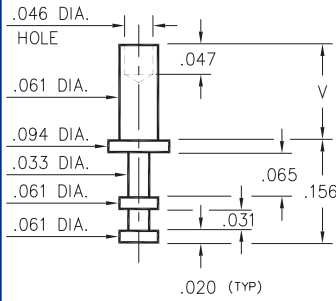
**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 44 300µ" SILVER OVER COPPER (RoHS)
- ◇ 50 300µ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)

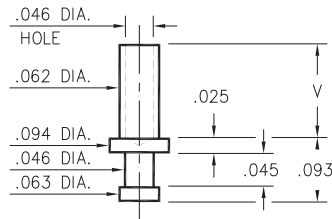




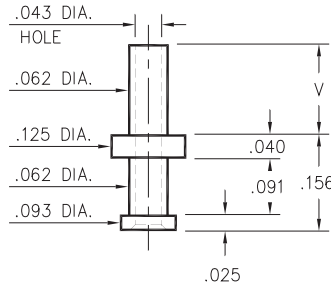
## 2348/2301/2506



**2348-X-00-XX-00-00-07-0**  
Swage mount in .064 hole



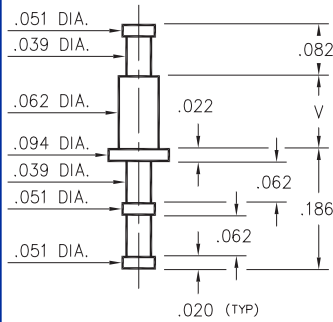
**2301-X-00-XX-00-00-07-0**  
Swage mount in .067 hole



**2506-X-00-XX-00-00-07-0**  
Swage mount in .067 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

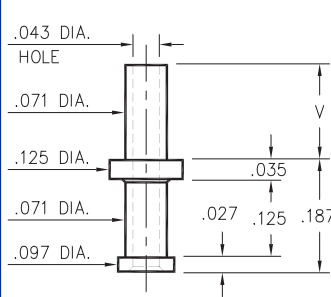
## 2310



**2310-X-00-XX-00-00-07-0**  
Swage mount in .067 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.082
3	.094	.113
4	.125	.145

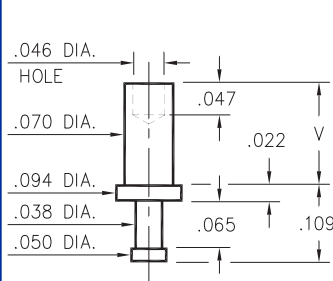
## 2505



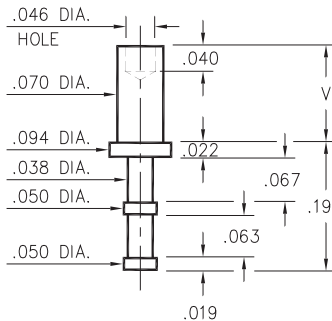
**2505-X-00-XX-00-00-07-0**  
Swage mount in .076 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.093
3	.094	.125
4	.125	.156

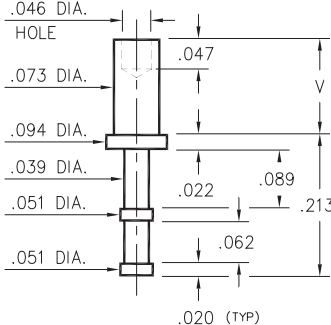
## 2325/2355/2365



**2325-X-00-XX-00-00-07-0**  
Swage mount in .073 hole



**2355-X-00-XX-00-00-07-0**  
Swage mount in .073 hole



**2365-X-00-XX-00-00-07-0**  
Swage mount in .076 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0**

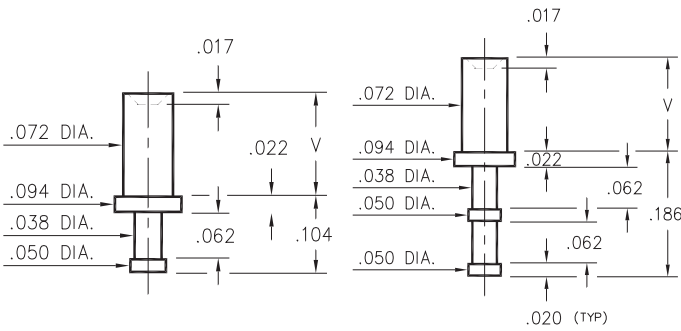
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



## 2304/2305

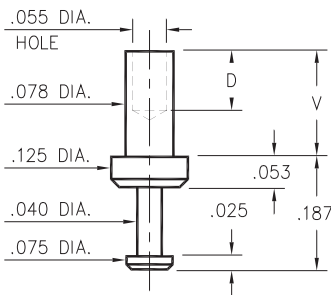


- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113
4	.125	.145

**2304-X-00-XX-00-00-07-0**  
Swage mount in .076 hole

**2305-X-00-XX-00-00-07-0**  
Swage mount in .076 hole

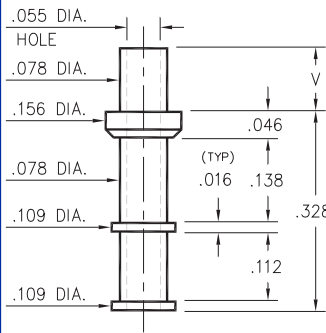
## 2503



- X -	Board Thickness	Length V	Depth D
1	.031	.078	.068
2	.062	.109	.098
3	.094	.141	
4	.125	.172	

**2503-X-00-XX-00-00-07-0**  
Swage mount in .082 hole

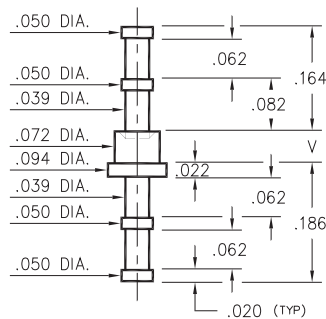
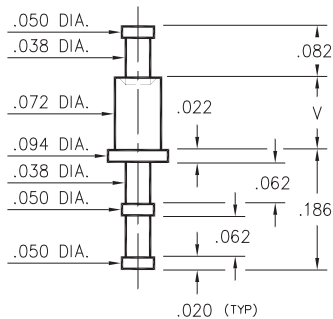
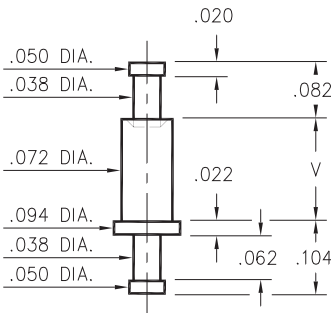
## 2704



- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

**2704-X-00-XX-00-00-07-0**  
Swage mount in .082 hole

## 2306/2307/2311



- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113
4	.125	.145

**2306-X-00-XX-00-00-07-0**  
Swage mount in .076 hole

**2307-X-00-XX-00-00-07-0**  
Swage mount in .076 hole

**2311-X-00-XX-00-00-07-0**  
Swage mount in .076 hole

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0**

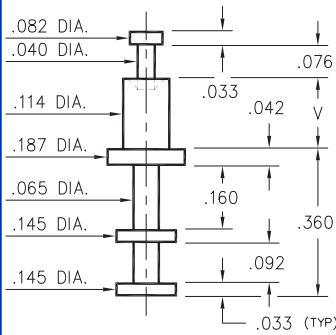
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



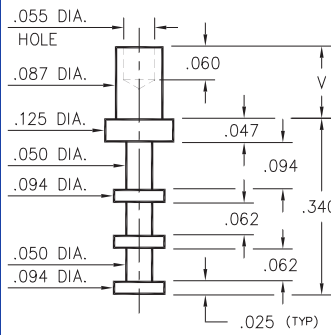
## 2810



**2810-X-00-XX-00-00-07-0**  
Swage mount in .118 hole

- X -	Board Thickness	Length V
2	.062	.105
3	.094	.135
4	.125	.165

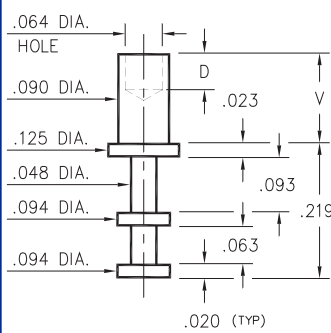
## 2524



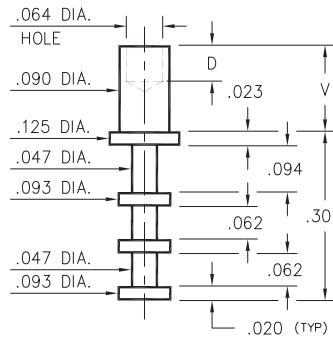
**2524-X-00-XX-00-00-07-0**  
Swage mount in .092 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

## 2561/2508



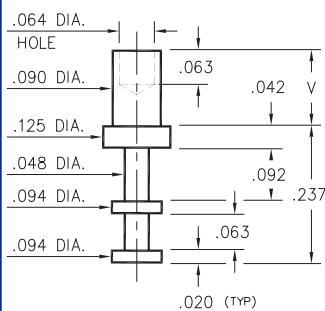
**2561-X-00-XX-00-00-07-0**  
Swage mount in .094 hole



**2508-X-00-XX-00-00-07-0**  
Swage mount in .094 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.063	.047
2	.062	.094	.062
3	.094	.125	
4	.125	.156	

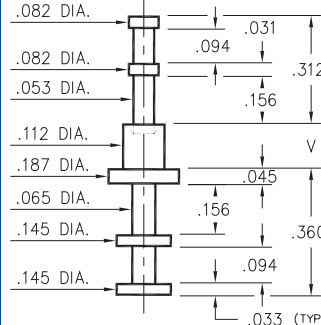
## 2551



**2551-X-00-XX-00-00-07-0**  
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

## 2812



**2812-X-00-XX-00-00-07-0**  
Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.062	.105
2	.094	.135
3	.125	.165
4	.188	.230

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0**

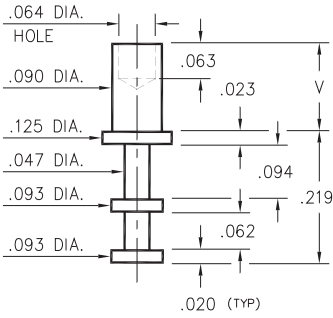
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



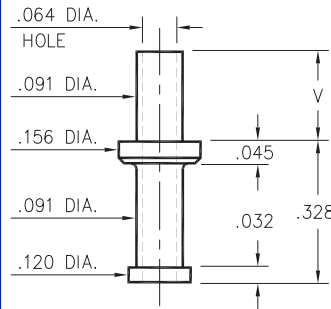
## 2501



**2501-X-00-XX-00-00-07-0**  
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.140
4	.125	.171

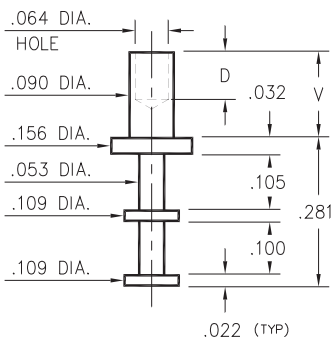
## 2703



**2703-X-00-XX-00-00-07-0**  
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.077
2	.062	.107
3	.094	.137
4	.125	.167

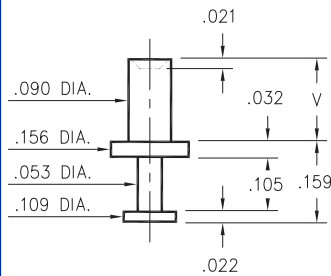
## 2702



**2702-X-00-XX-00-00-07-0**  
Swage mount in .094 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.075	.063
2	.062	.105	.093
3	.094	.135	
4	.125	.165	

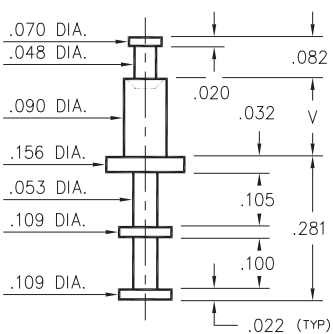
## 2710



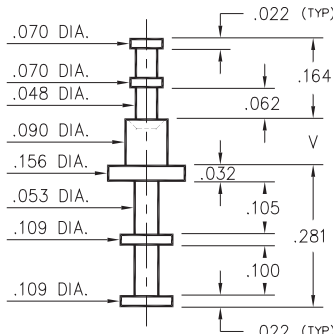
**2710-X-00-XX-00-00-07-0**  
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

## 2717/2713



**2717-X-00-XX-00-00-07-0**  
Swage mount in .094 hole



**2713-X-00-XX-00-00-07-0**  
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0**

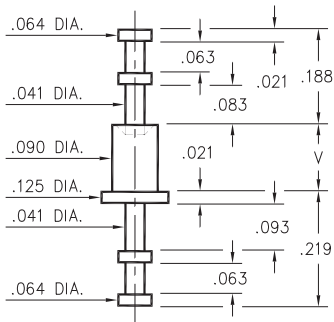
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 44 300µ" SILVER OVER COPPER (RoHS)
- ◇ 50 300µ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



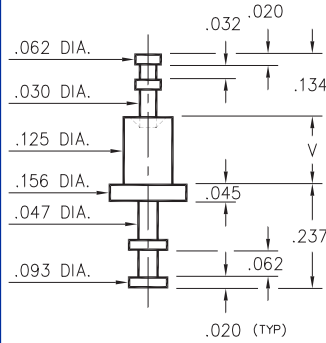
## 2512



- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

**2512-X-00-XX-00-00-07-0**  
Swage mount in .094 hole

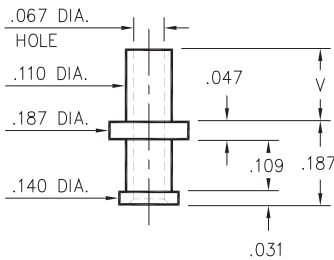
## 2705



- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

**2705-X-00-XX-00-00-07-0**  
Swage mount in .129 hole

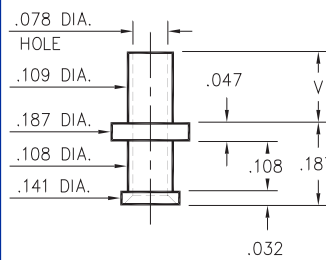
## 2803



- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.140
4	.125	.171

**2803-X-00-XX-00-00-07-0**  
Swage mount in .113 hole

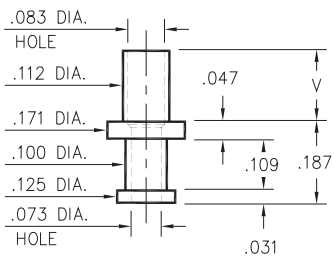
## 2815



- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

**2815-X-00-XX-00-00-07-0**  
Swage mount in .113 hole

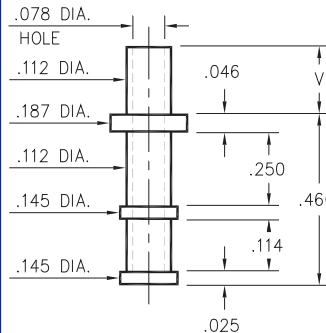
## 2816



- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.141
4	.125	.172

**2816-X-00-XX-00-00-07-0**  
Swage mount in .116 hole

## 2817



- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

**2817-X-00-XX-00-00-07-0**  
Swage mount in .116 hole

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0**

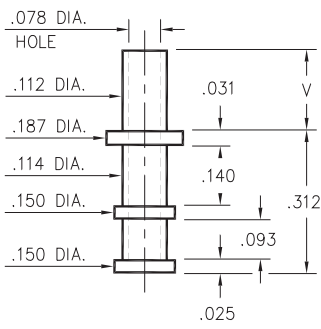
**BASIC PART #**

**SPECIFY PIN FINISH:**

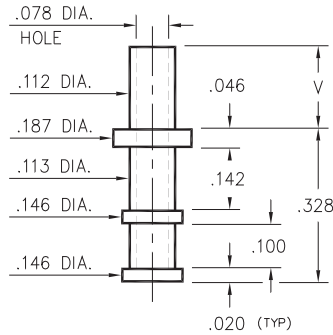
- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



## 2802/2804



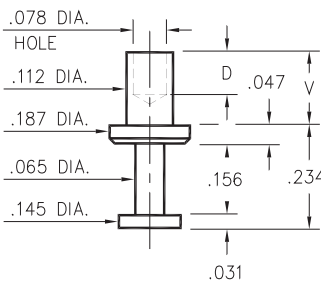
**2802-X-00-XX-00-00-07-0**  
Swage mount in .118 hole



**2804-X-00-XX-00-00-07-0**  
Swage mount in .118 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.140
4	.125	.171

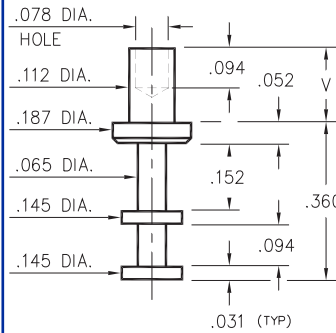
## 2805



**2805-X-00-XX-00-00-07-0**  
Swage mount in .116 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.074	.068
2	.062	.105	.098
3	.094	.135	
4	.125	.165	

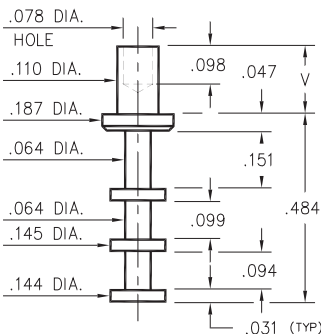
## 2801



**2801-X-00-XX-00-00-07-0**  
Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.141
4	.125	.172
5	.188	.234

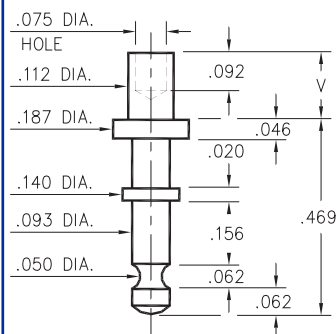
## 2806



**2806-X-00-XX-00-00-07-0**  
Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.141
4	.125	.172

## 2811



**2811-X-00-XX-00-00-07-0**  
Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0**

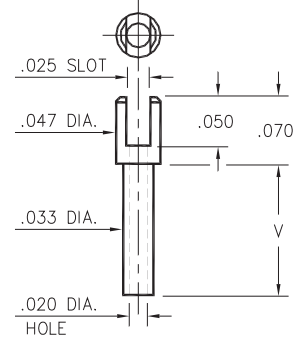
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



## 2104

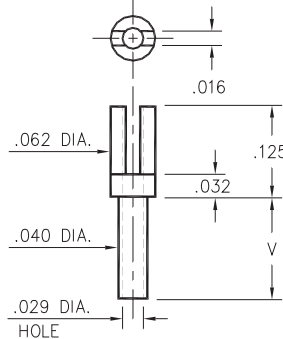


**2104-X-01-XX-00-00-07-0**

Swage mount in .036 hole

- X -	Board Thickness	Length V
1	.031	.055
2	.062	.086
3	.094	.117
4	.125	.148

## 2112

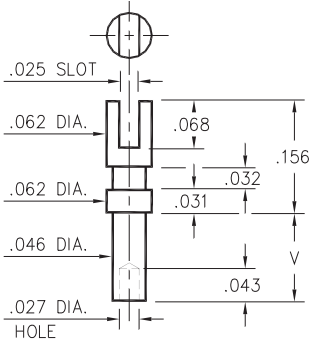


**2112-X-01-XX-00-00-07-0**

Swage mount in .043 hole

- X -	Board Thickness	Length V
5	.016	.037
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

## 2105

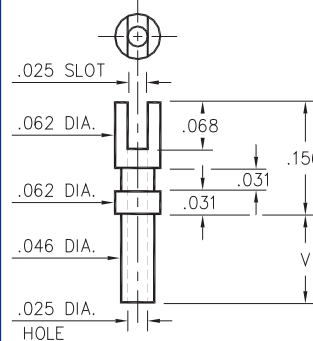


**2105-X-01-XX-00-00-07-0**

Swage mount in .052 hole

- X -	Board Thickness	Length V
1	.031	.055
2	.062	.086
3	.094	.117
4	.125	.149

## 2103

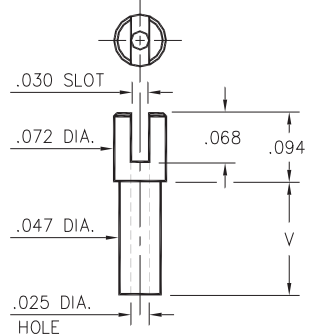


**2103-X-01-XX-00-00-07-0**

Swage mount in .052 hole

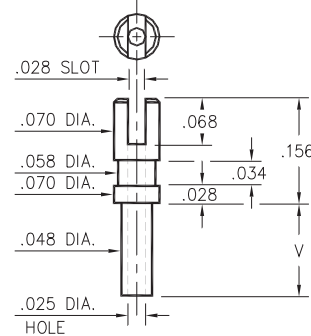
- X -	Board Thickness	Length V
1	.031	.058
2	.062	.089
3	.094	.120
4	.125	.150

## 2106/2107



**2106-X-01-XX-00-00-07-0**

Swage mount in .052 hole



**2107-X-01-XX-00-00-07-0**

Swage mount in .052 hole

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113
4	.125	.145

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0**

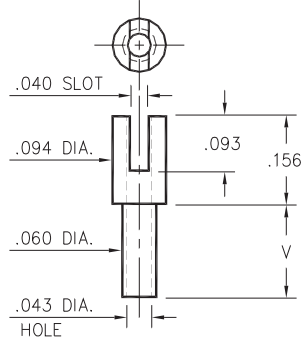
**BASIC PART #**

**SPECIFY PIN FINISH:**

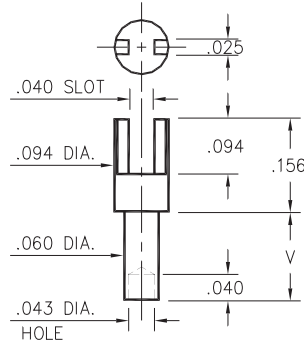
- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 44 300µ" SILVER OVER COPPER (RoHS)
- ◇ 50 300µ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



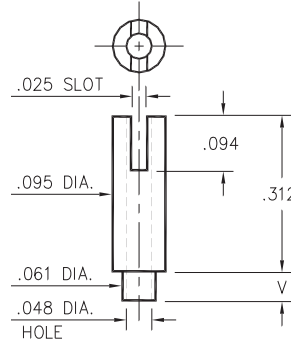
## 2303/2323/2322



**2303-X-01-XX-00-00-07-0**  
Swage mount in .064 hole



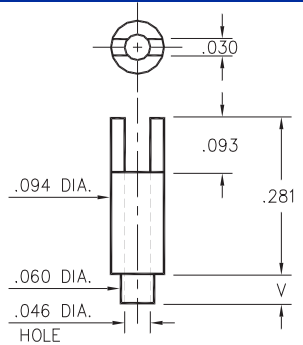
**2323-X-01-XX-00-00-07-0**  
Swage mount in .064 hole



**2322-X-01-XX-00-00-07-0**  
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

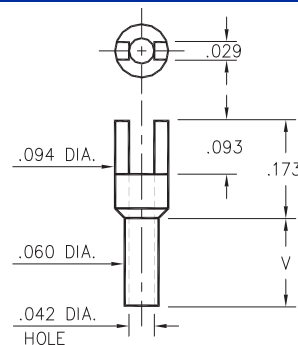
## 2320



**2320-X-01-XX-00-00-07-0**  
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115

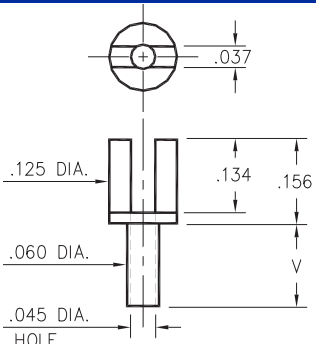
## 2328



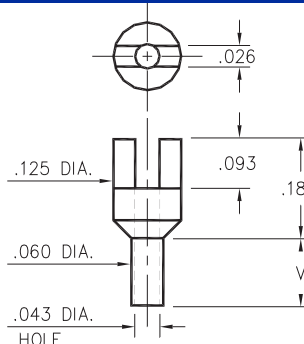
**2328-X-01-XX-00-00-07-0**  
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

## 2520/2517



**2520-X-01-XX-00-00-07-0**  
Swage mount in .064 hole



**2517-X-01-XX-00-00-07-0**  
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0**

**BASIC PART #**

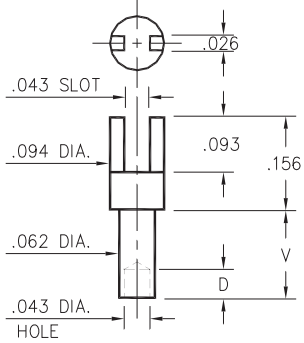
**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)





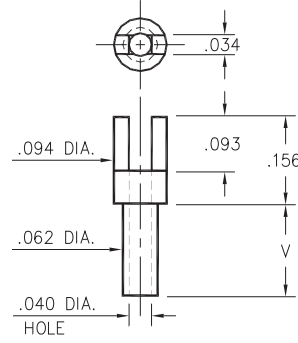
**2315**



**2315-X-01-XX-00-00-07-0**  
Swage mount in .067 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.045	.040
2	.062	.094	
3	.094	.125	.062
4	.125	.156	

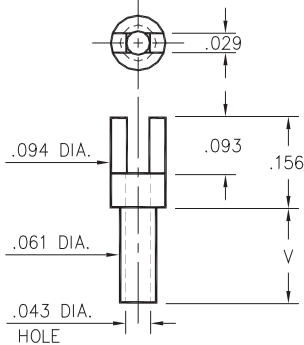
**2302**



**2302-X-01-XX-00-00-07-0**  
Swage mount in .067 hole.

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

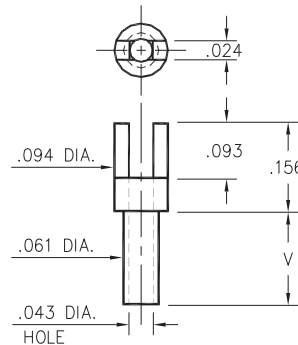
**2352**



**2352-X-01-XX-00-00-07-0**  
Swage mount in .067 hole

- X -	Board Thickness	Length V
1	.031	.045
2	.062	.094
3	.094	.125
4	.125	.156

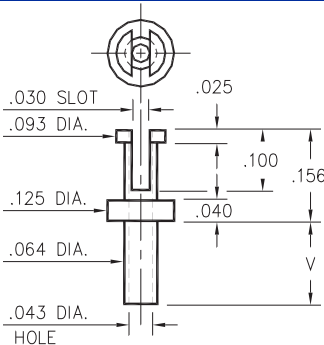
**2362**



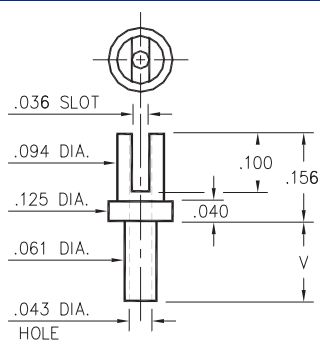
**2362-X-01-XX-00-00-07-0**  
Swage mount in .067 hole

- X -	Board Thickness	Length V
5	.016	.037
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

**2507/2526**



**2507-X-01-XX-00-00-07-0**  
Swage mount in .067 hole



**2526-X-01-XX-00-00-07-0**  
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

**SPECIFICATIONS**

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0**

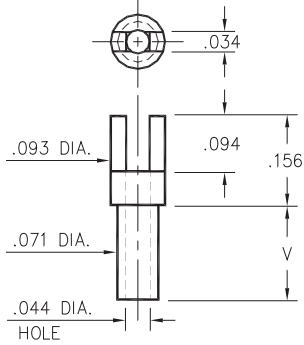
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 44 300µ" SILVER OVER COPPER (RoHS)
- ◇ 50 300µ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



## 2314

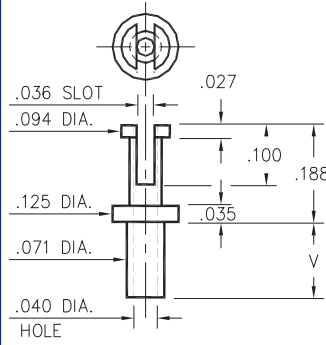


- X -	Board Thickness	Length V
1	.031	.045
2	.062	.094
3	.094	.125
4	.125	.156

**2314-X-01-XX-00-00-07-0**

Swage mount in .076 hole

## 2511

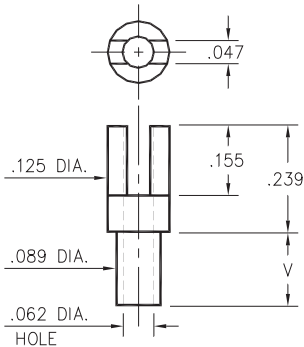


- X -	Board Thickness	Length V
1	.031	.063
2	.062	.094
3	.094	.125
4	.125	.156

**2511-X-01-XX-00-00-07-0**

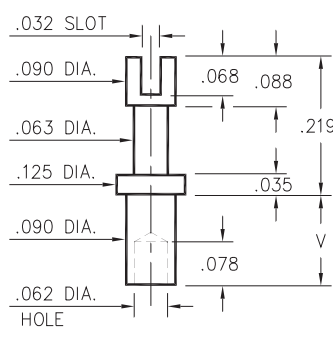
Swage mount in .076 hole

## 2515/2516



**2515-X-01-XX-00-00-07-0**

Swage mount in .094 hole

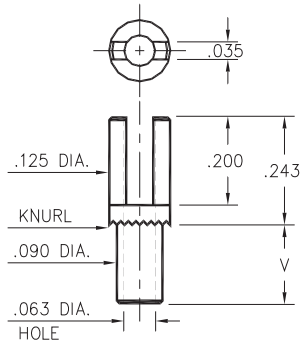


**2516-X-01-XX-00-00-07-0**

Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.147

## 2502



**2502-X-01-XX-00-00-07-0**

Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.080
2	.062	.111
3	.094	.143
4	.125	.174

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0**

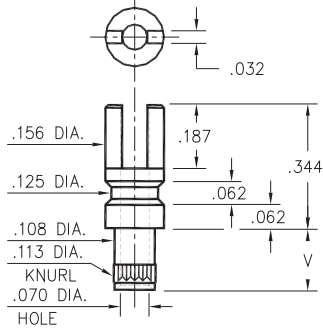
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



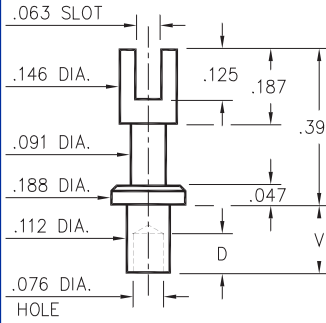
## 2715



**2715-X-01-XX-00-00-07-0**  
Swage mount in .116 hole

- X -	Board Thickness	Length V
2	.062	.109
3	.094	.141
4	.125	.172

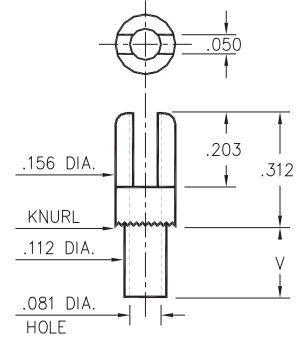
## 2809



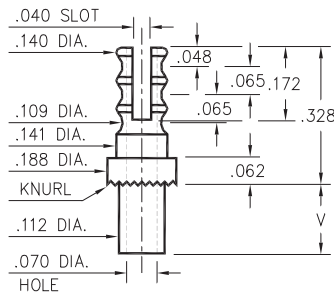
**2809-X-01-XX-00-00-07-0**  
Swage mount in .116 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.078	.068
2	.062	.109	
3	.094	.141	.098
4	.125	.172	

## 2701/2808



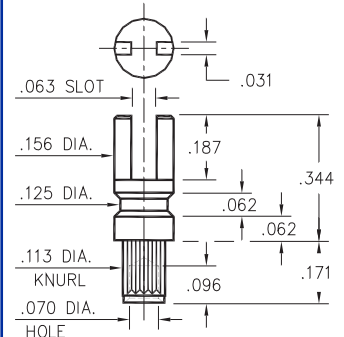
**2701-X-01-XX-00-00-07-0**  
Swage mount in .116 hole



**2808-X-01-XX-00-00-07-0**  
Swage mount in .116 hole

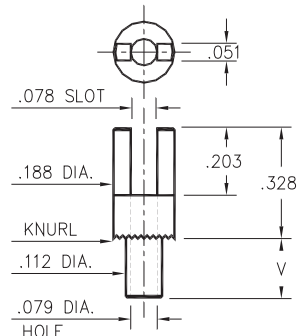
- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

## 2762



**2762-4-01-XX-00-00-07-0**  
Swage mount in .116 hole  
For .125 thick board

## 2807



**2807-X-01-XX-00-00-07-0**  
Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.140
4	.125	.171

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0**

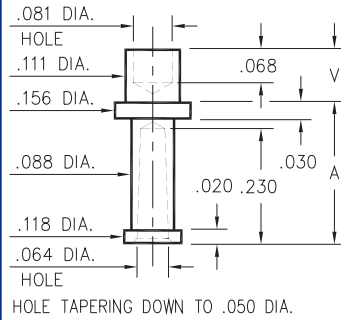
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



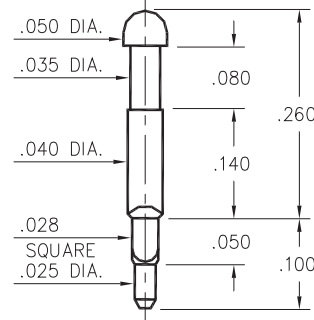
## 2709



- X -	Board Thickness	Length V	Length A
2	.062	.109	.281
3	.094	.141	.250

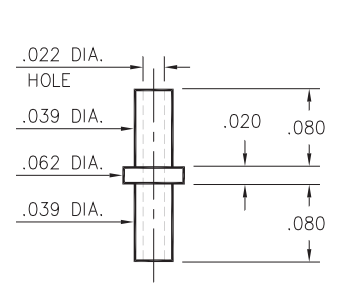
**2709-X-07-XX-00-00-07-0**  
Swage mount in .116 hole

## 8602



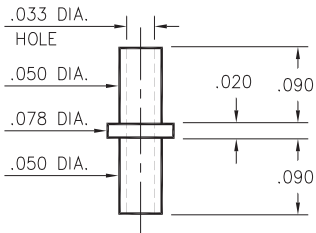
**8602-1-00-XX-00-00-07-0**  
Square press-fit in .032 plated thru hole

## 2115



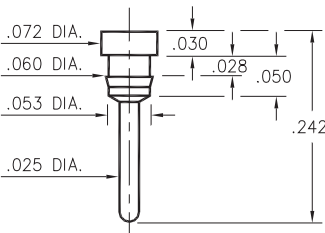
**2115-2-00-XX-00-00-07-0**  
Swage mount in .043 hole  
For .062 thick board

## 2326



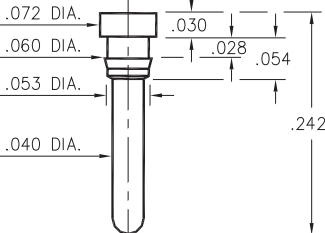
**2326-2-00-XX-00-00-07-0**  
Swage mount in .055 hole  
for .062 thick board

## 8831



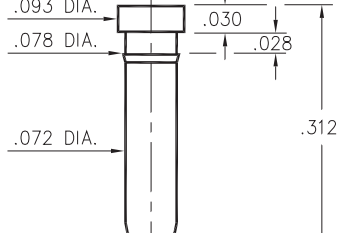
**8831-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

## 8835



**8835-0-00-XX-00-00-03-0**  
Press-fit in .057 mounting hole

## 8836



**8836-0-00-XX-00-00-03-0**  
Press-fit in .075 mounting hole

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - XX - XX - 00 - 00 - XX - 0**

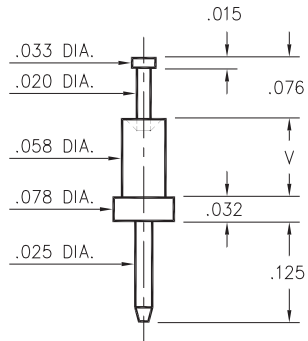
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



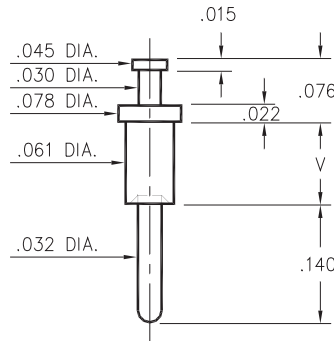
## 2318



- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

**2318-X-00-XX-00-00-07-0**  
Swage mount in .062 hole

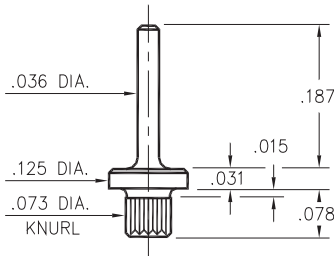
## 2309



- X -	Board Thickness	Length V
1	.031	.054
2	.062	.084
3	.094	.115
4	.125	.147

**2309-X-00-XX-00-00-07-0**  
Swage mount in .064 hole

## 2514



**2514-2-00-XX-00-00-07-0**  
Press-fit in .070 mounting hole

### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0**

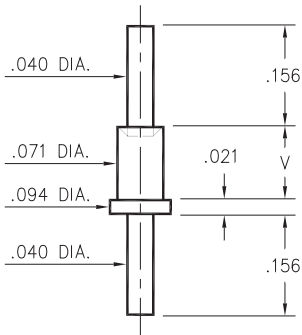
**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



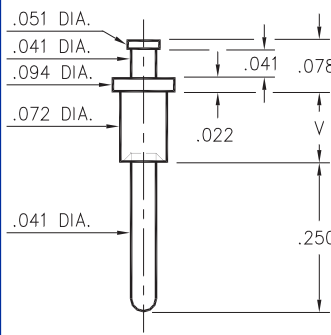
### 2319



- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

**2319-X-00-XX-00-00-07-0**  
Swage mount in .076 hole

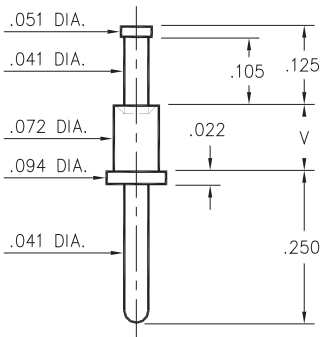
### 2313



- X -	Board Thickness	Length V
1	.031	.051
2	.062	.084
3	.094	.113
4	.125	.145

**2313-X-00-XX-00-00-07-0**  
Swage mount in .076 hole

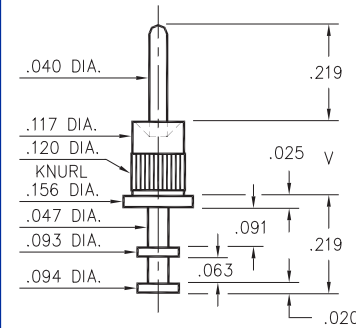
### 2321



- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113
4	.125	.145

**2321-X-00-XX-00-00-07-0**  
Swage mount in .076 hole

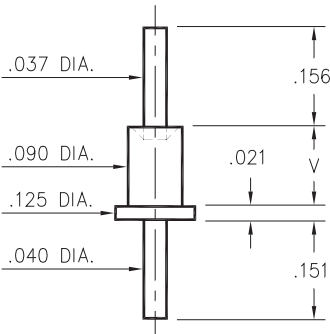
### 2706



- X -	Board Thickness	Length V
1	.031	.063
2	.062	.093
3	.094	.125
4	.125	.156

**2706-X-00-XX-00-00-07-0**  
Swage mount in .120 hole

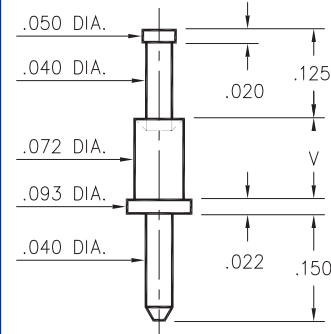
### 2530



- X -	Board Thickness	Length V
2	.062	.094
3	.094	.125
4	.125	.156

**2530-X-00-XX-00-00-07-0**  
Swage mount in .094 hole

### 3156



Basic Part Number	Board Thickness	Length V
3156-1	.031	.051
3156-2	.062	.082
3156-3	.094	.113
3156-4	.125	.145

**3156-X-00-XX-00-00-08-0**  
Swage mount in .076 hole

#### SPECIFICATIONS

**PIN MATERIAL:**  
Brass Alloy 360, 1/2 Hard  
Swage pins are annealed

**DIMENSION IN INCHES**  
**TOLERANCES ON:**  
LENGTHS: ±.005  
DIAMETERS: ±.002  
ANGLES: ± 2°

**ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0**

**BASIC PART #**

**SPECIFY PIN FINISH:**

- 01 200µ" TIN/LEAD OVER NICKEL
- ◇ 80 200µ" TIN OVER NICKEL (RoHS)
- ◇ 44 300µ" SILVER OVER COPPER (RoHS)
- ◇ 50 300µ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)







**THE “MULTI-FINGER” CONTACT**

Mill-Max makes pin receptacles by press-fitting a “multi-finger” spring contact into a machined shell. A selection of 34 contact types are pre-tooled for those who wish to design custom receptacles. This extensive family of contacts will accept round pins ranging from .008” to .102” diameter, as well as rectangular component leads and square wraposts, where the effective diameter is taken as the diagonal dimension of the lead.

Many contacts are interchangeable within a given shell, and so the contact selector chart has been organized by alternate contact groupings. Standard receptacles found in this catalog can be easily assembled with alternate contacts to suit special applications, for example: low insertion force or high operating temperature.

Contact Groups	Contact Type	Accepts Minimum Pin Diameter	Accepts Maximum Pin Diameter	Contact Compliancy	Contact Length	Number of Fingers	Contact Material	Current Rating ( For 10°C ΔT)			
No Alternate	#04	.008	.013	.003	.053	3	BeCu	2A			
No Alternate	#10	.012	.017		.060	6					
A	#09	.015	.018	.002	.075	3	BeCu	3A			
	#11		.020	.003							
	#21		.022	.004							
#05											
B	#12		.003	.062	4						
	#22		.005		6						
C	#30		.025	.026	.008	.083			6	BeCu	
	#38										.004
	#32										.009
	#35										.026
#43											
No Alternate	#15	.022	.032	.004	.113	4	BeNi	4.5A			
D	#06			.007							
	#26			.005							
	#16			.034					.006		
E	#47	.025	.037	.011	.083	6	BeCu				
	#18	.037	.043	.004				.062	4		
	#36	.022	.042	.022							
	#49	.032	.046	.006						.120	
#34	.010										
F	#24	.040	.050	.009	.084	6	BeCu				
	#02			.006							
J	#28	.042	.052	.005	.150	4	BeCu	20A			
	#42	.053	.063	.004							
G	#03	.040	.060	.010	.100	6	BeCu	11.2A			
	#23	.045	.065	.008							
	#13	.048	.064	.010							
#33	.008										
H	#07	.065	.082	.013	.150	4	BeCu	15A			
	#27			.012							
	#14		.085	.014							
No Alternate	#08	.084	.102	.011	.122	6	BeCu	18A			



## CONTACT SPECIFICATIONS

### COMPLIANCY ( $\delta$ )

The Mill-Max “multi-finger” contact exhibits wide compliance, eg. the ability of any single contact to accept a broad range of round pins as well as rectangular or square component leads. This ability is referred to as the contact’s “compliance”. The compliance factor ( $\delta$ ) specifies the re-configured operating range after the initial insertion of the largest permissible mating pin. For example: the # 34 contact has an initial operating range from .032” to .047” diameter pins, and a compliance of .010”; but after insertion of a .047” pin, the contact is sized, and the minimum pin acceptance becomes .047” - .010” = .037”. Thus, the new operating range becomes .037” to .047”.

The insertion/extraction/normal force characteristics that follow were derived using 30 $\mu$ ” gold plated contact and polished steel, gauge pins having a bullet-shaped tip. The curves represent typical average values. The charts only guide you in selecting a clip that is close to your specification. Your results may vary, so for your specification, **log onto [www.mill-max.com](http://www.mill-max.com) to obtain complimentary samples of a receptacle assembly for your evaluation.**

### NORMAL FORCE

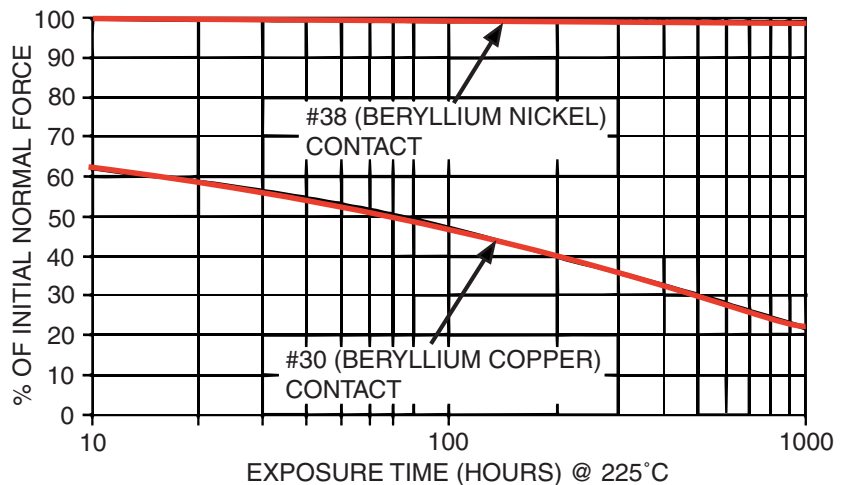
Normal force is the force with which each finger of the “multi-finger” contact grips the mating pin or component lead. For normal forces below 30 grams, gold on both the pin and contact is recommended. For normal forces above 100 grams, tin finish has proven to be very reliable.

### CURRENT RATING

Current rating for each contact group can be found in the contact selector chart on page 214. This current rating (for a 10° C temperature rise above ambient) is conservative since it rates an individual pin/ receptacle pair in the free air. For all practical applications, the current rating will be higher because of the heat sinking ability of wires and circuit traces attached to the pin and receptacles.

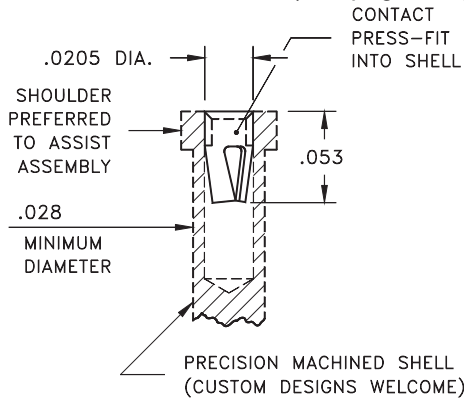
### CONTACT MATERIAL AND STRESS RELAXATION AT HIGH TEMPERATURE

Mill-Max contacts are made from either beryllium copper or beryllium nickel that has been heat treated to achieve ultimate spring properties. The graph illustrates how beryllium copper loses its spring properties over time at a high temperature (225°C). Thus, for burn-in applications and continuous operation above 150°C, beryllium nickel should be substituted for beryllium copper.

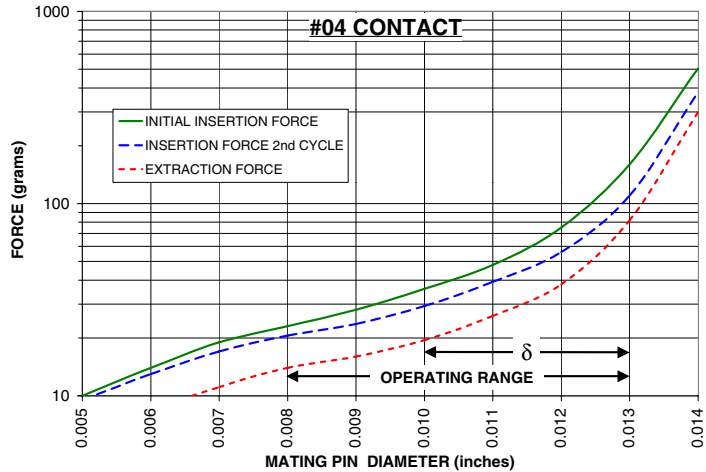


### #04 CONTACT

FOR .008-.013 DIAMETER PINS ( $\delta$ =.003)  
3-FINGER (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

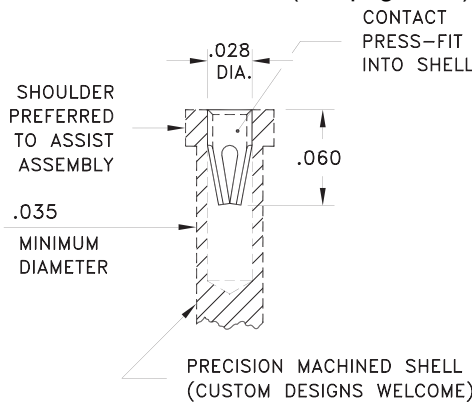


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

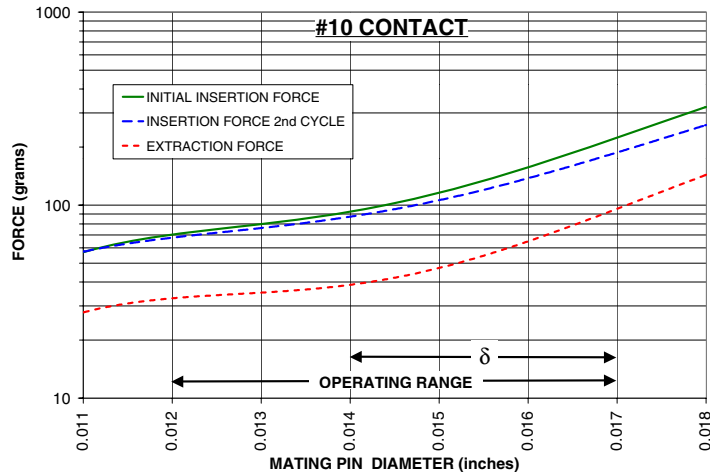
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #10 CONTACT

FOR .012-.017 DIAMETER PINS ( $\delta$ =.003)  
6-FINGER (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

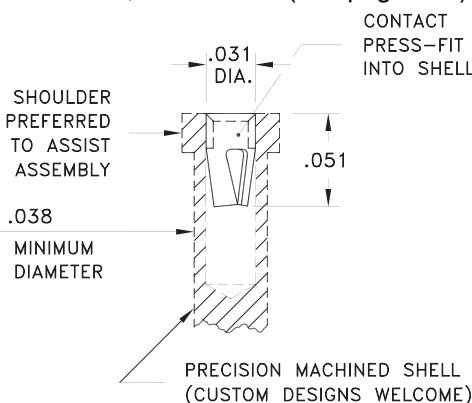


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

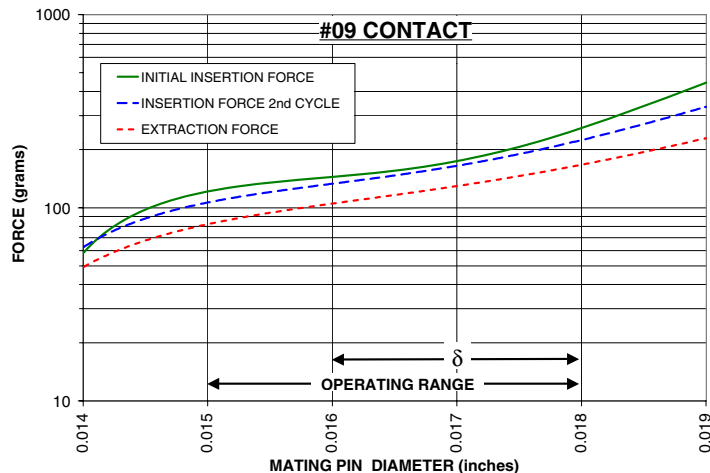
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #09 CONTACT

FOR .015-.018 DIAMETER PINS ( $\delta$ =.002)  
3-FINGER, GROUP A (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

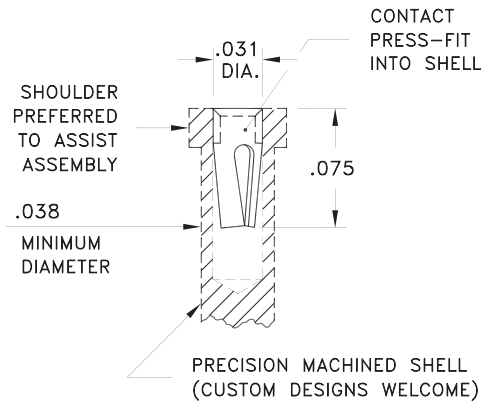


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

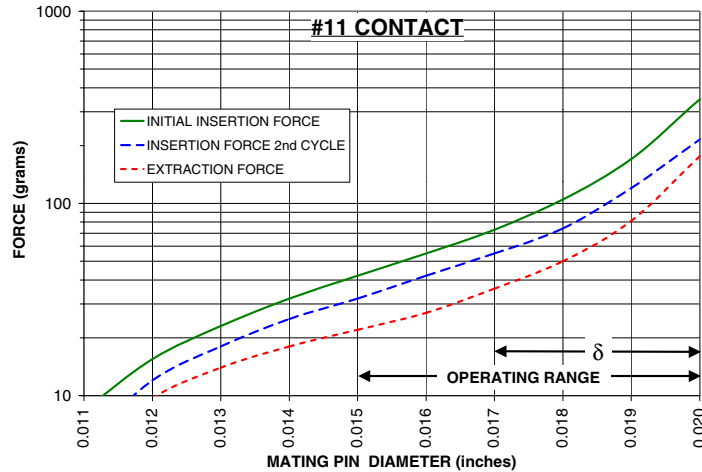
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #11 CONTACT

FOR .015-.020 DIAMETER PINS ( $\delta$ =.003)  
3-FINGER, GROUP A (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

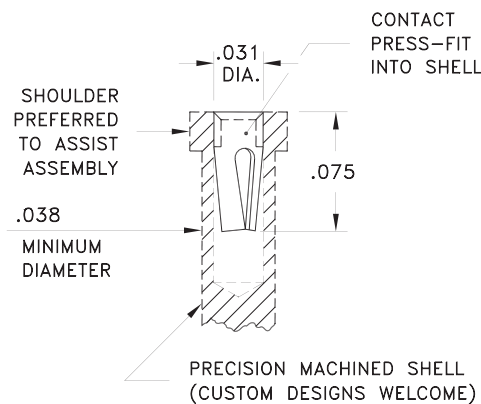


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

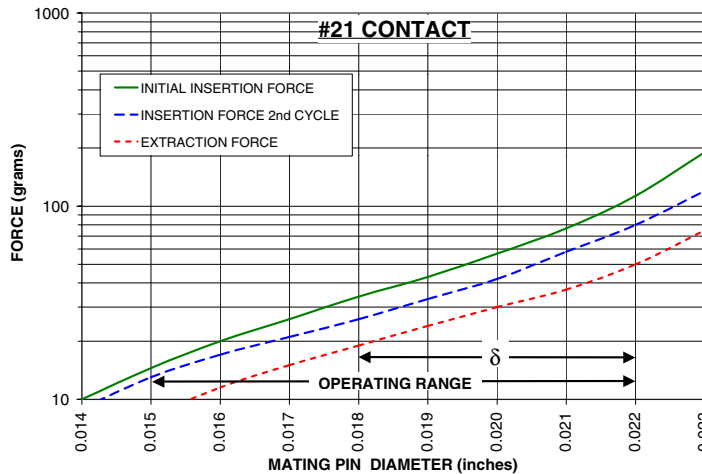
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #21 CONTACT

FOR .015-.022 DIAMETER PINS ( $\delta$ =.004)  
3-FINGER, GROUP A (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

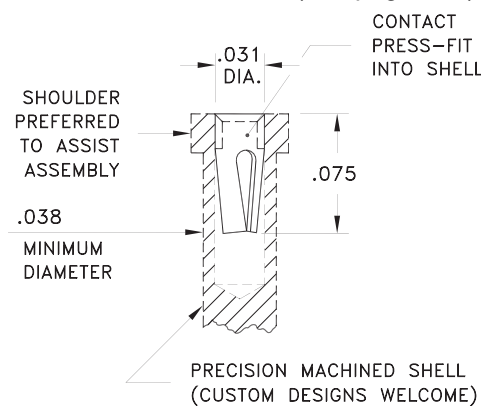


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

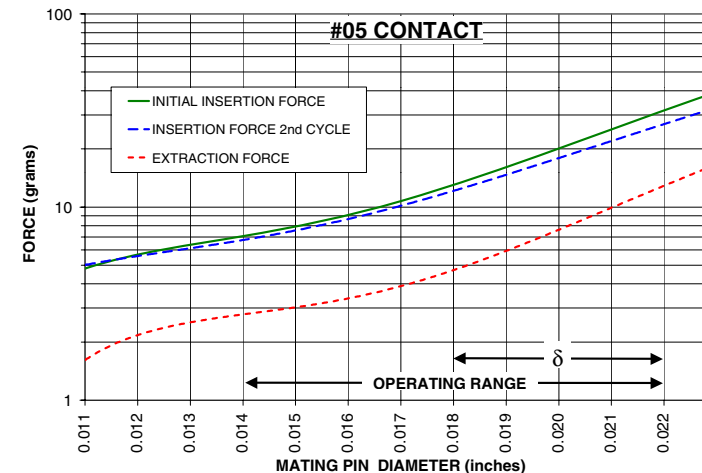
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #05 CONTACT

FOR .015-.022 DIAMETER PINS ( $\delta$ =.004)  
3-FINGER, GROUP A (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

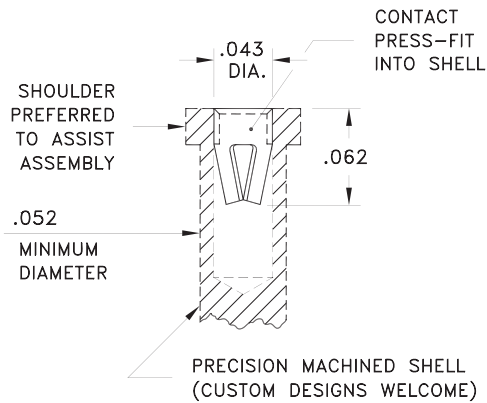


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

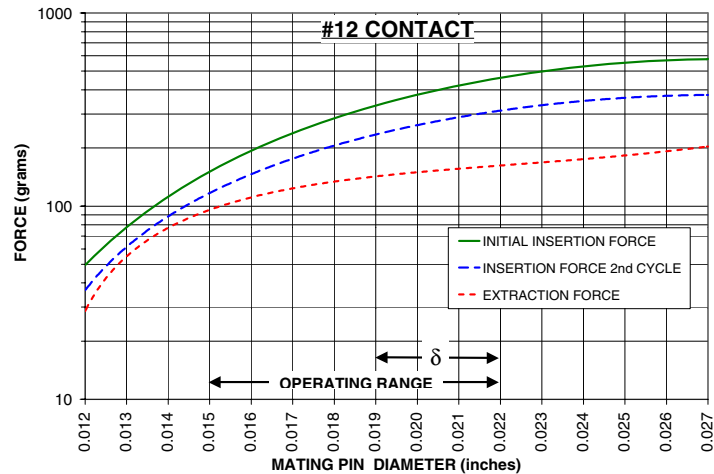
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #12 CONTACT

FOR .015-.022 DIAMETER PINS ( $\delta$ =.003)  
4-FINGER, GROUP B (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

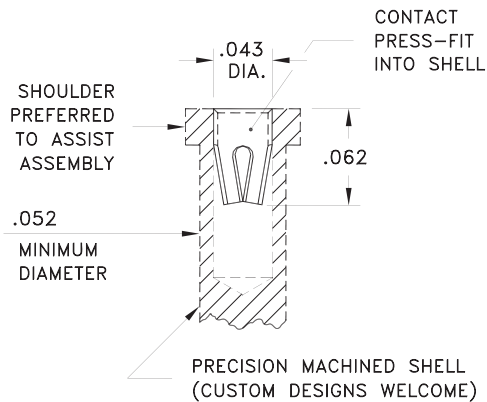


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

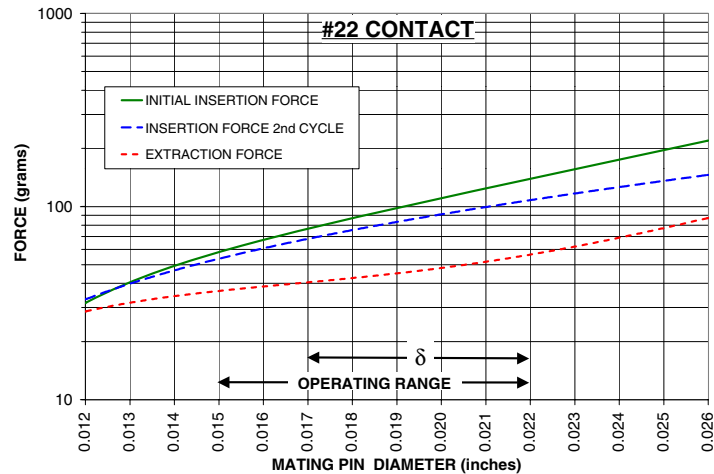
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #22 CONTACT

FOR .015-.022 DIAMETER PINS ( $\delta$ =.005)  
6-FINGER, GROUP B (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

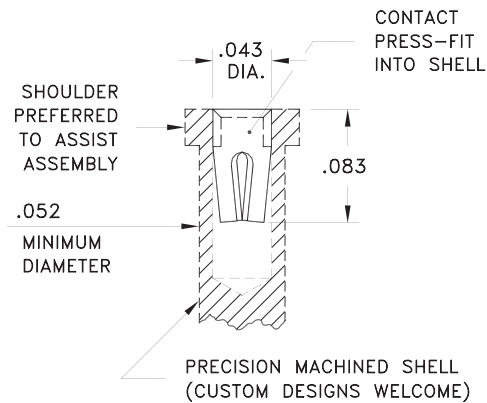


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

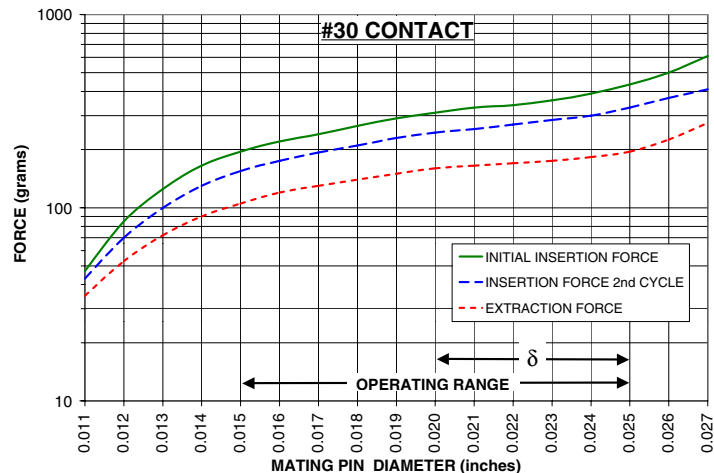
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #30 CONTACT

FOR .015-.025 DIAMETER PINS ( $\delta$ =.005)  
4-FINGER, GROUP C (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

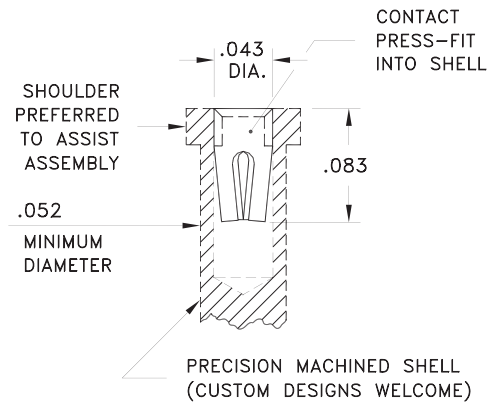


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

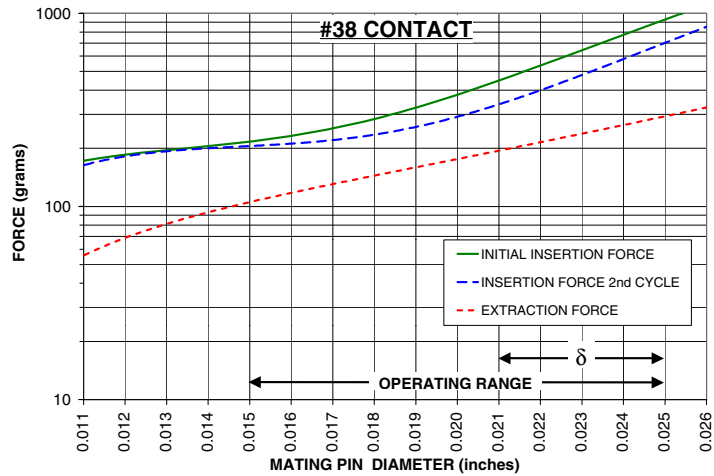
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #38 CONTACT

FOR .015-.025 DIAMETER PINS ( $\delta$ =.004)  
4-FINGER, GROUP C (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM NICKEL Alloy 360, Heat Treated

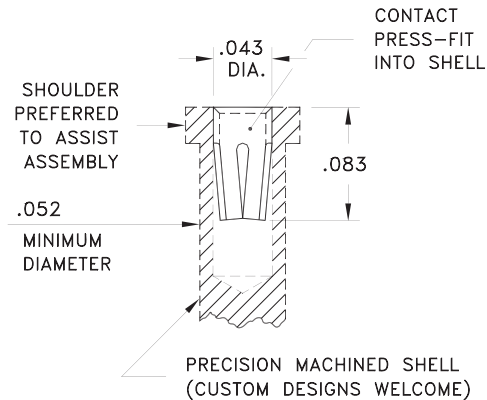


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

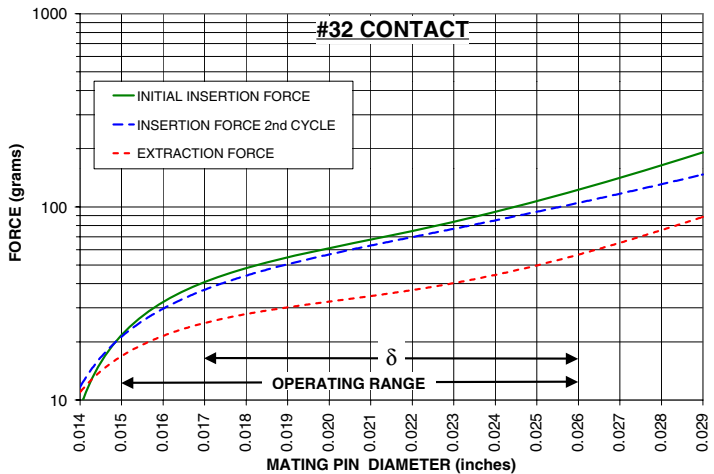
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #32 CONTACT

FOR .015-.026 DIAMETER PINS ( $\delta$ =.009)  
6-FINGER, GROUP C (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

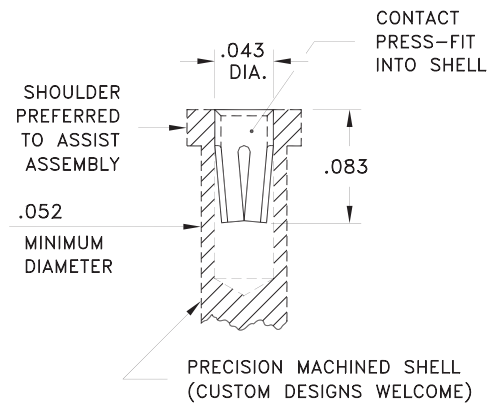


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

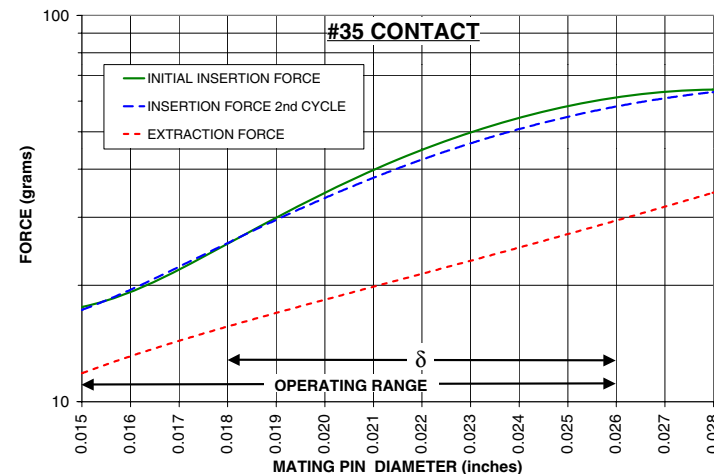
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #35 CONTACT

FOR .015-.026 DIAMETER PINS ( $\delta$ =.008)  
6-FINGER, GROUP C (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

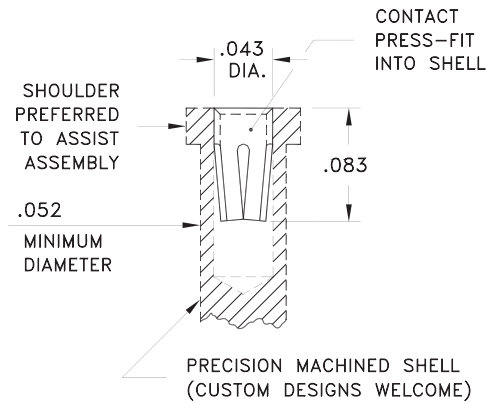


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

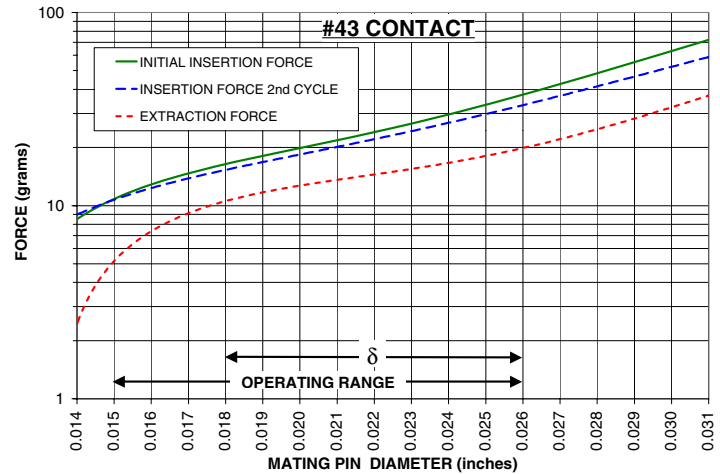
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #43 CONTACT

FOR .015-.026 DIAMETER PINS ( $\delta$ =.008)  
6-FINGER, GROUP C (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

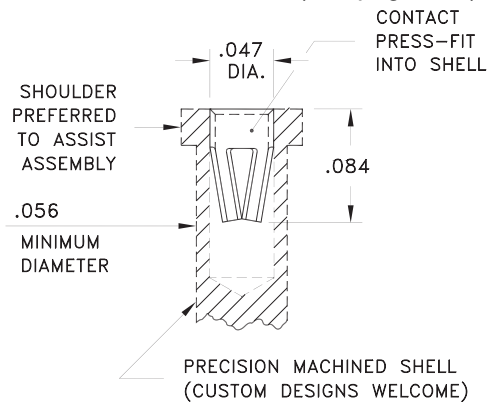


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

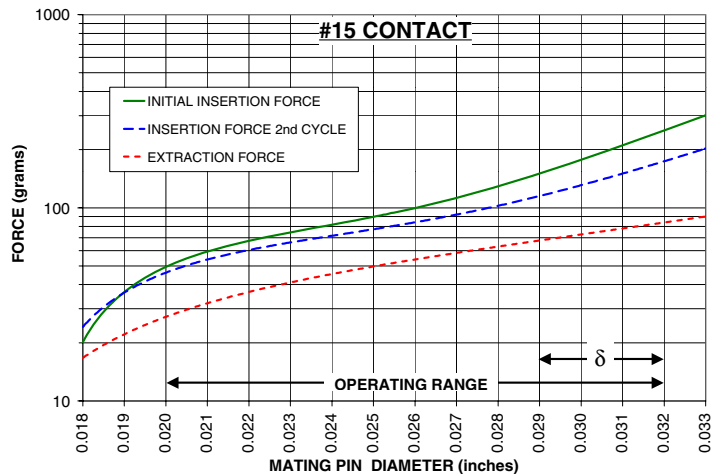
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #15 CONTACT

FOR .022-.032 DIAMETER PINS ( $\delta$ =.004)  
6-FINGER (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

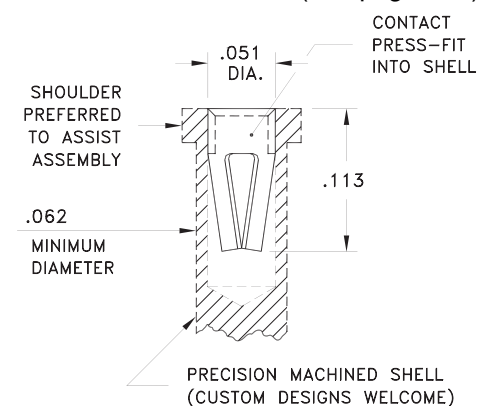


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

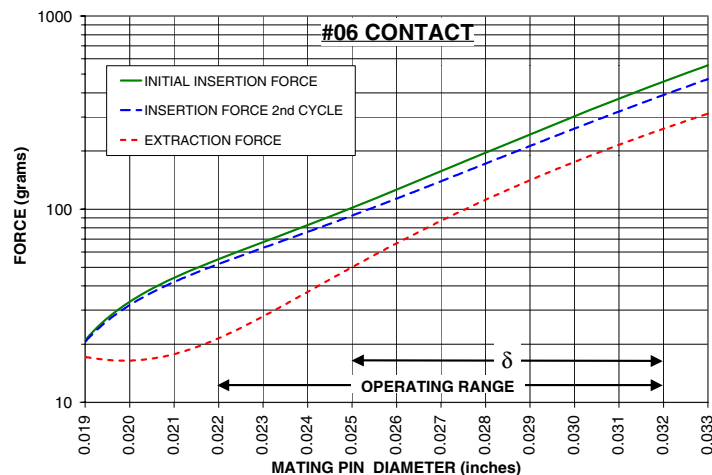
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #06 CONTACT

FOR .022-.032 DIAMETER PINS ( $\delta$ =.007)  
4-FINGER, GROUP D (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

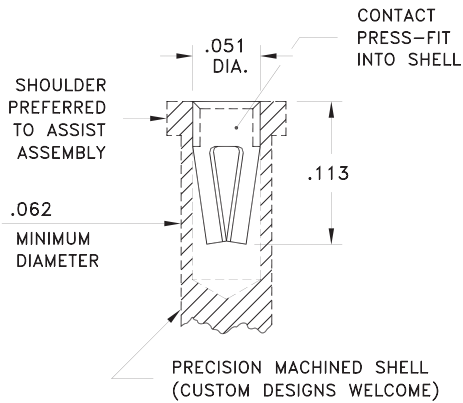


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

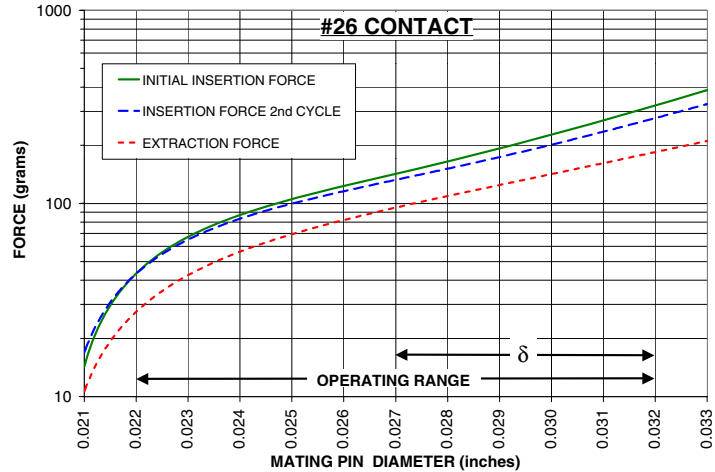
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #26 CONTACT

FOR .022-.032 DIAMETER PINS ( $\delta$ =.005)  
4-FINGER, GROUP D (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM NICKEL Alloy 360, Heat Treated

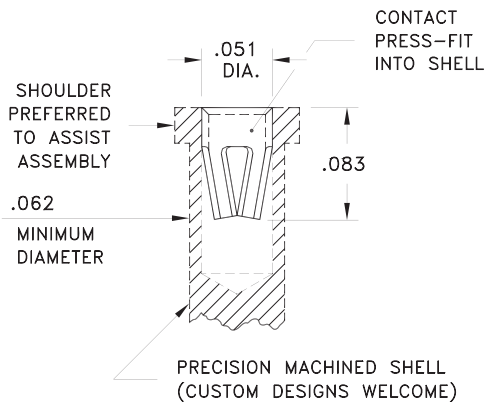


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

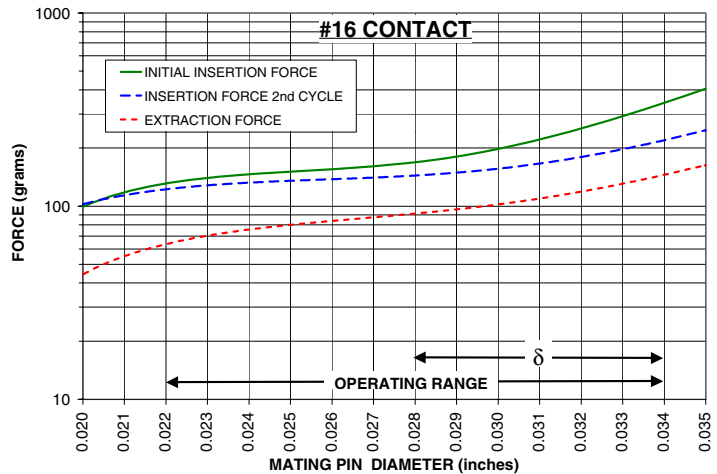
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #16 CONTACT

FOR .022-.034 DIA. & .025 SQ. ( $\delta$ =.006)  
6-FINGER, GROUP D (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

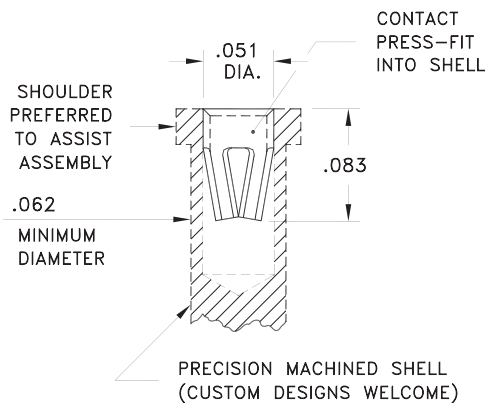


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

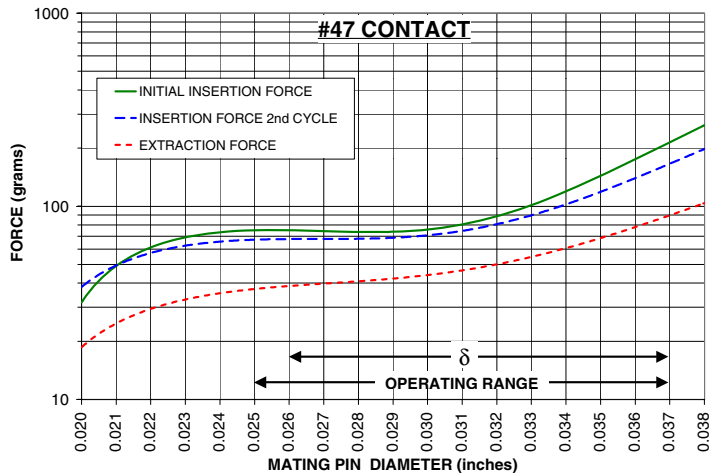
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #47 CONTACT

FOR .025-.037 DIA. & .025 SQ. ( $\delta$ =.011)  
6-FINGER, GROUP D (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

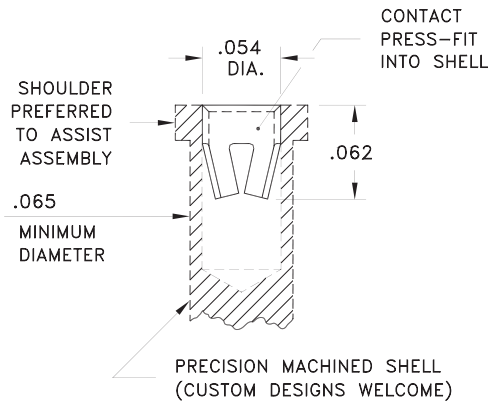


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

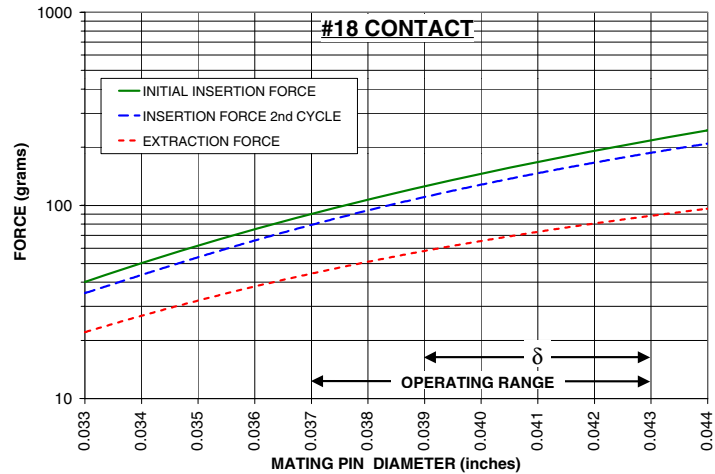
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #18 CONTACT

FOR .037-.043 DIAMETER PINS ( $\delta$ =.004)  
6-FINGER (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

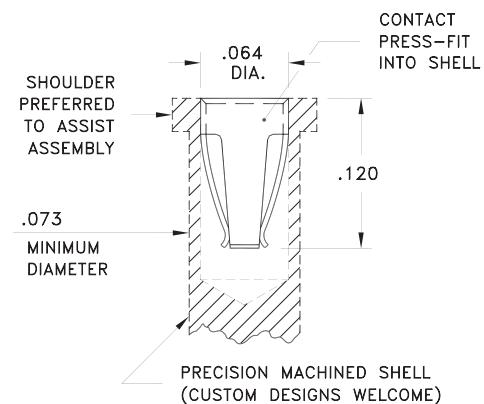


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

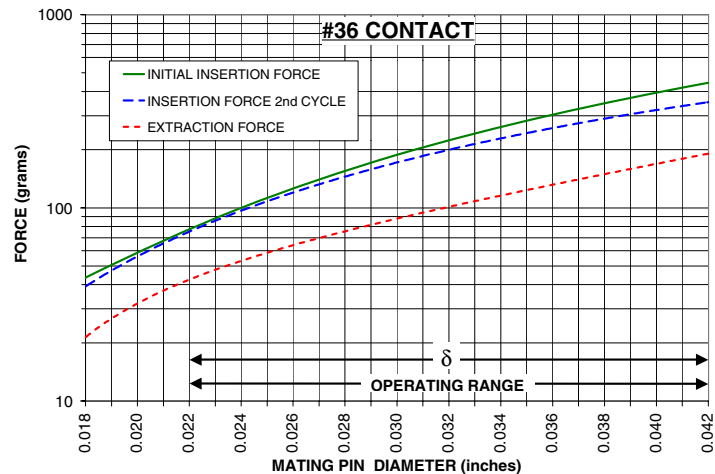
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #36 CONTACT

FOR .022-.042 DIAMETER PINS ( $\delta$ =.022)  
4-FINGER, GROUP E (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

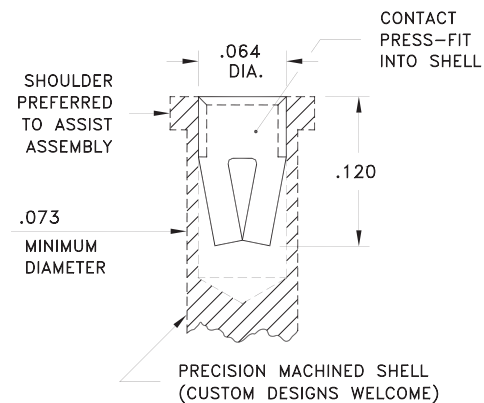


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

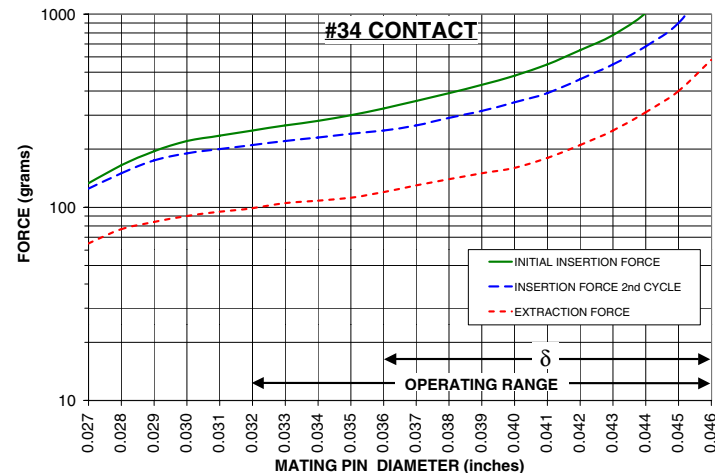
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #34 CONTACT

FOR .032-.046 DIAMETER PINS ( $\delta$ =.010)  
4-FINGER, GROUP E (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated



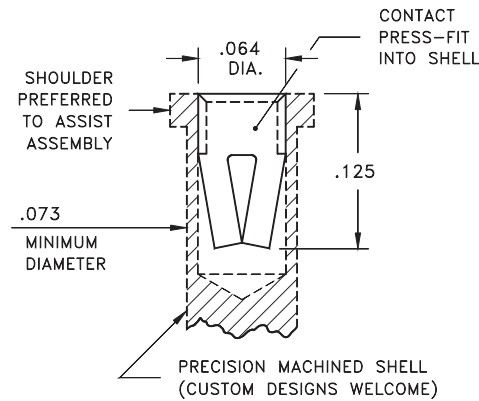
The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

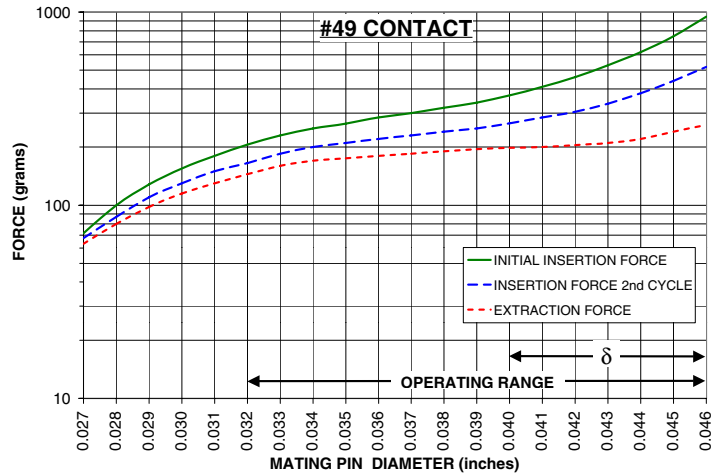


### #49 CONTACT

FOR .032-.046 DIAMETER PINS ( $\delta$ =.006)  
4-FINGER, GROUP E (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

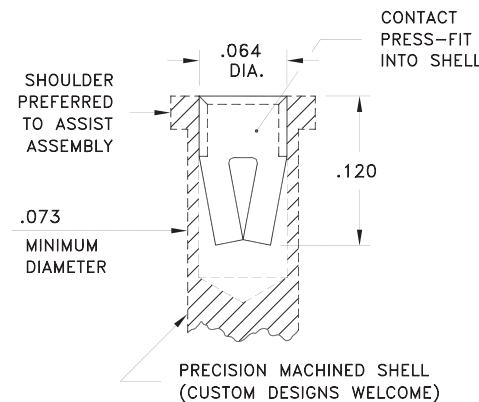


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

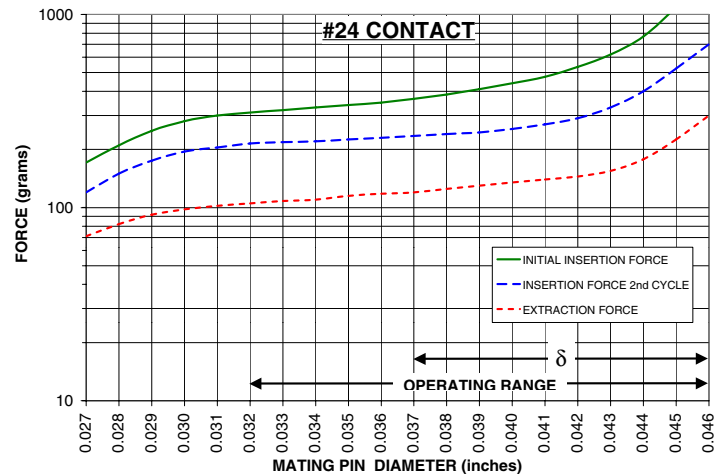
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #24 CONTACT

FOR .032-.046 DIAMETER PINS ( $\delta$ =.009)  
4-FINGER, GROUP E (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM NICKEL Alloy 360, Heat Treated

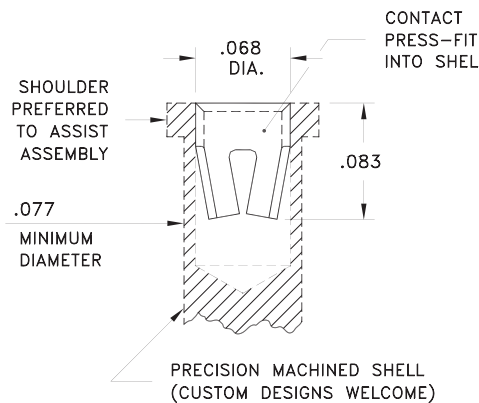


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

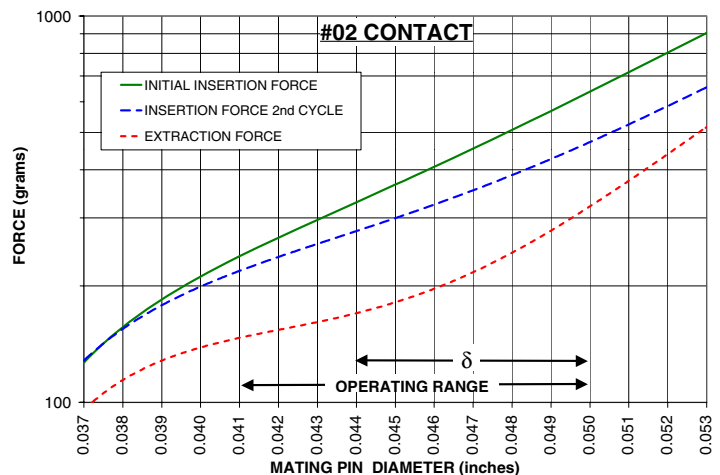
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #02 CONTACT

FOR .040-.050 DIAMETER PINS ( $\delta$ =.006)  
6-FINGER, GROUP F (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

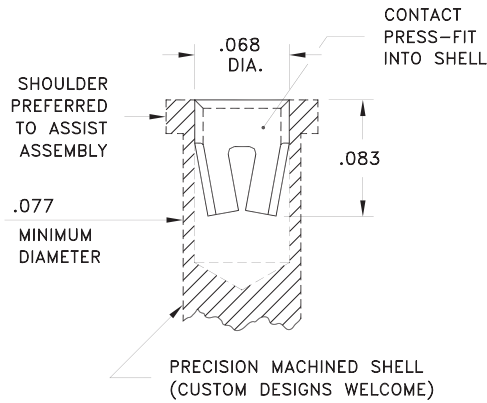


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

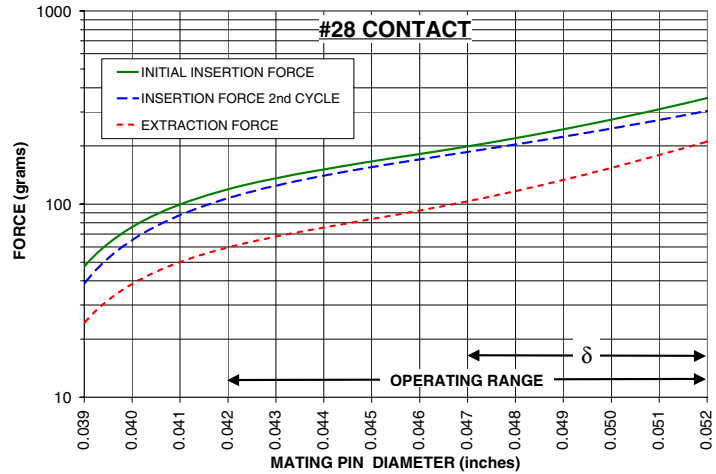
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #28 CONTACT

FOR .042-.052 DIAMETER PINS ( $\delta = .005$ )  
6-FINGER, GROUP F (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

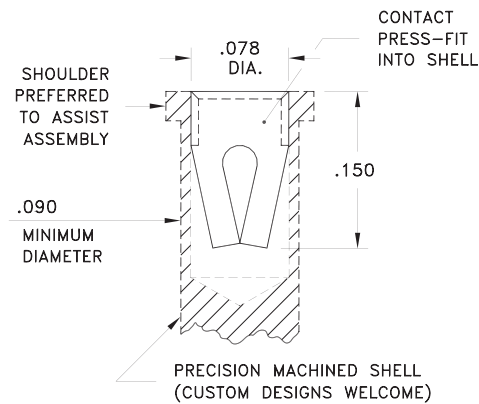


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

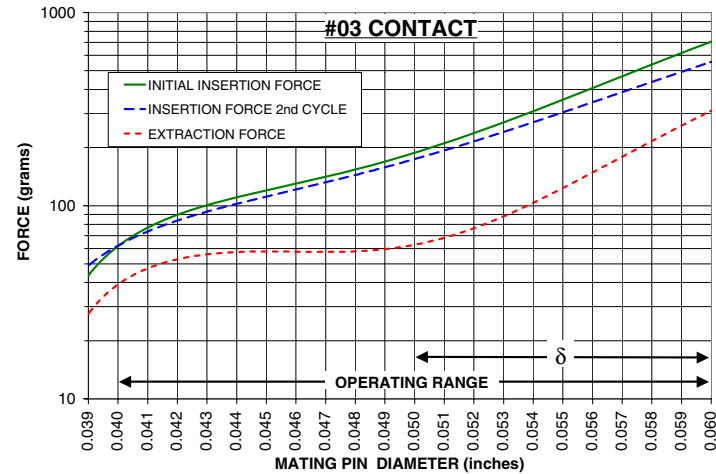
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #03 CONTACT

FOR .040-.060 DIAMETER PINS ( $\delta = .010$ )  
4-FINGER (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

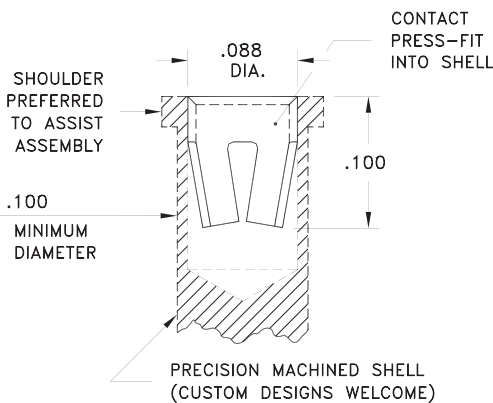


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

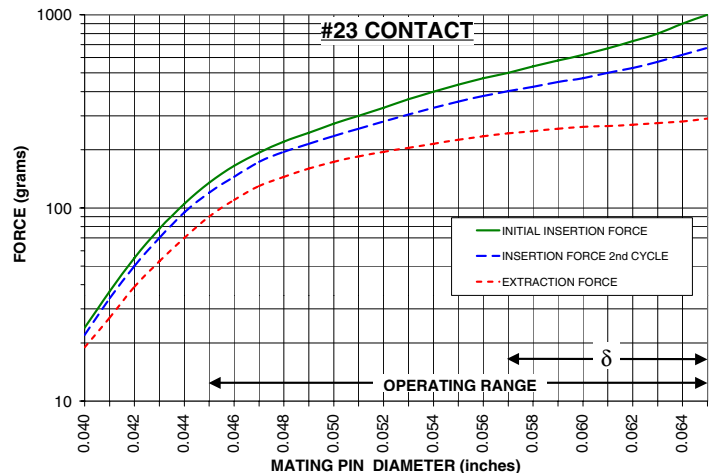
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #23 CONTACT

FOR .045-.065 DIAMETER PINS ( $\delta = .008$ )  
6-FINGER, GROUP G (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

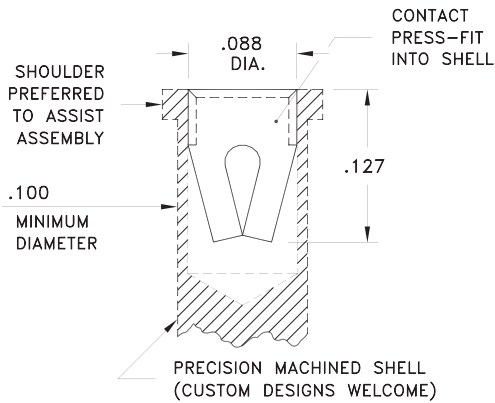


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

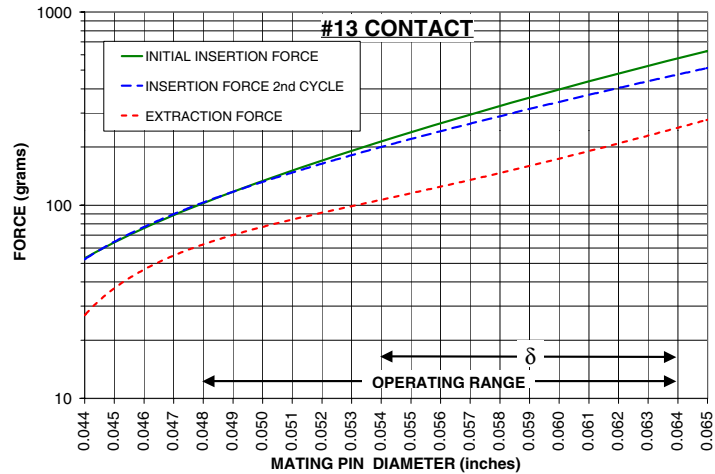
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #13 CONTACT

FOR .048-.064 DIAMETER PINS ( $\delta = .010$ )  
4-FINGER, GROUP G (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

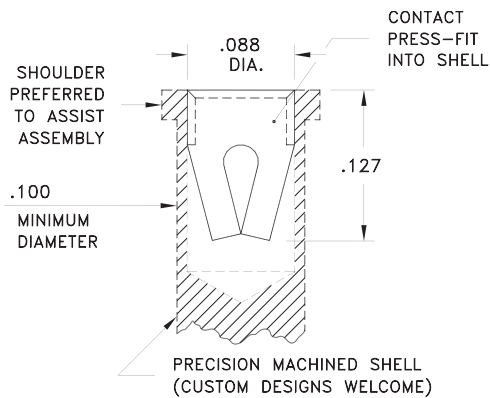


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

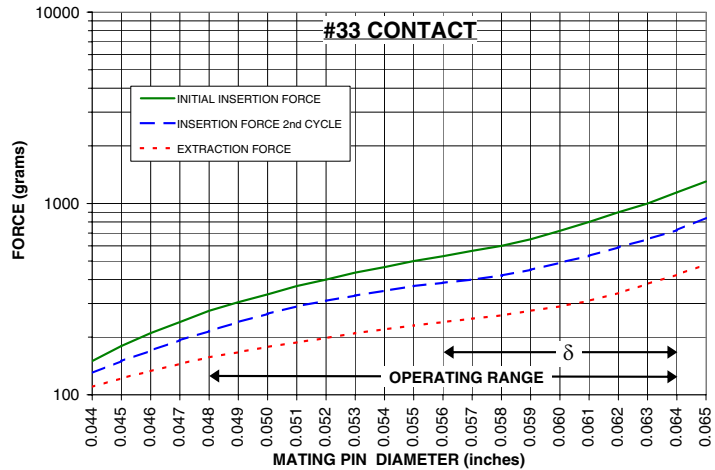
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #33 CONTACT

FOR .048-.064 DIAMETER PINS ( $\delta = .008$ )  
4-FINGER, GROUP G (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM NICKEL Alloy 360, Heat Treated

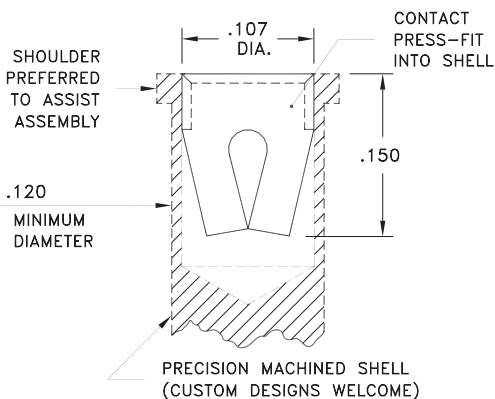


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

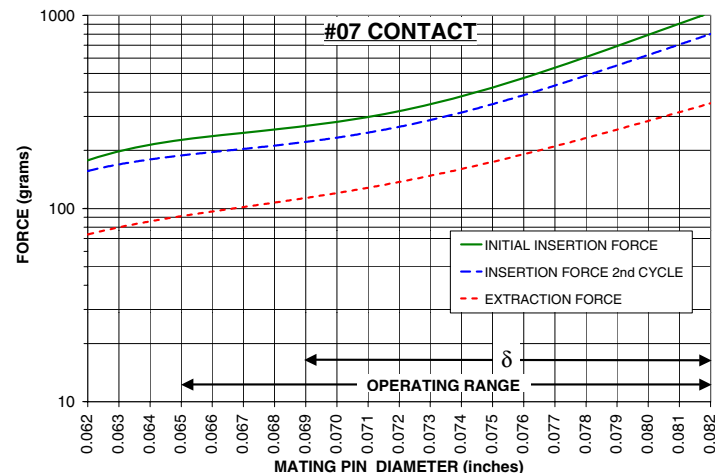
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #07 CONTACT

FOR .065-.082 DIAMETER PINS ( $\delta = .013$ )  
4-FINGER, GROUP H (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

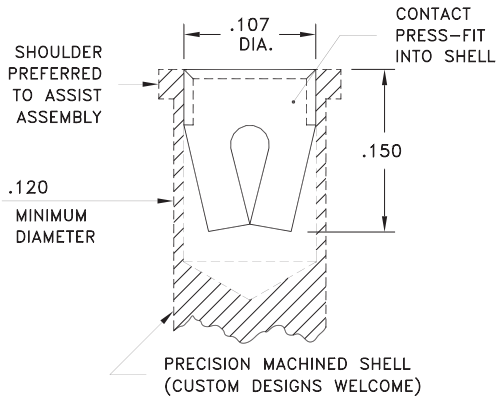


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

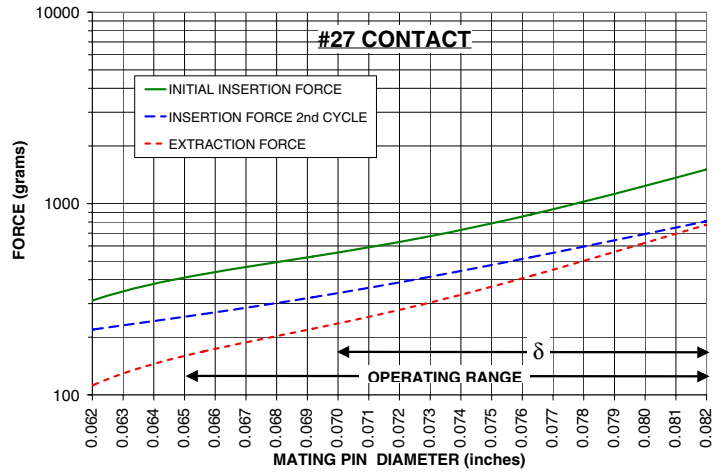
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #27 CONTACT

FOR .065-.082 DIAMETER PINS ( $\delta$ =.012)  
4-FINGER, GROUP H (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM NICKEL Alloy 360, Heat Treated

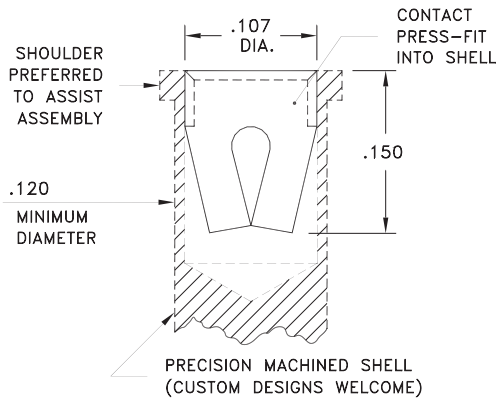


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

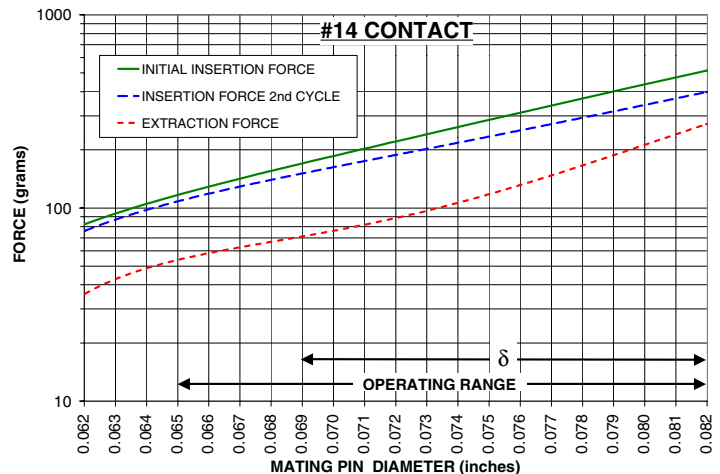
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #14 CONTACT

FOR .065-.082 DIAMETER PINS ( $\delta$ =.014)  
4-FINGER, GROUP H (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated

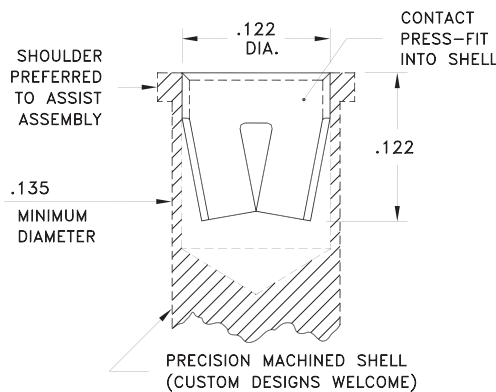


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

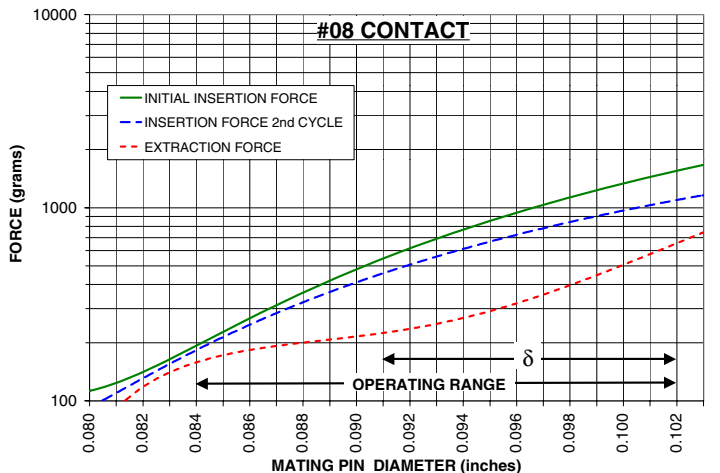
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

### #08 CONTACT

FOR .084-.102 DIAMETER PINS ( $\delta$ =.011)  
6-FINGER (see page 214)



**CONTACT MATERIAL:**  
BERYLLIUM COPPER Alloy 172, Heat Treated



The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.



## DETAILED PROPERTIES OF MILL-MAX RAW MATERIALS (including RoHS 2002/95/EC requirements)

### PROPERTIES OF METALS USED BY MILL-MAX

Copper alloy rod and wire for precision-machined pins, receptacles & solder terminals (**Alloys C36000 & C54400 contain 3 to 4% lead to permit "free machining" and is permitted by EC Directive 2002/95 Annex 6; so all pin materials are RoHS compliant.**)

**BRASS ALLOY 360** (UNS C36000) per ASTM B 16  
**PHOSPHOR BRONZE Alloy 544** (UNS C54400) per ASTM B 139  
**TELLURIUM COPPER Alloy 145** (UNS C14500) per ASTM B 301

Spring alloy strip for stamping "multi-finger" spring contacts  
**BERYLLIUM COPPER Alloy 172** (UNS C17200) per ASTM B 194  
**BERYLLIUM NICKEL Alloy 360** (UNS N03360)

#### Properties of BRASS:

Stock diameters available: .062/.072/.078/.093/.125/.156/.187/.250"  
Chemical composition: Cu 61.5%, Zn 35.4%, Pb 3.1%  
Temper as machined: H02/H04  
Modulus of elasticity:  $14 \times 10^6$  psi  
Tensile strength:  $70-90 \times 10^3$  psi  
Hardness as machined: 80-90 Rockwell B

After machining, brass parts are often annealed (softened) for subsequent bending, swaging or crimping. A partial anneal down to 60-10 RB is recommended for 90° bends, a full anneal down to 35±15 RB is recommended for pins or terminals that are swaged (riveted) to a circuit board or crimped to a wire.

Density: .307 lbs/in<sup>3</sup>  
Electrical conductivity: 26% IACS\*  
Melting point: 900°C/885°C (liquidus/solidus)

#### Properties of PHOSPHOR BRONZE:

Used for pins requiring more durability than brass.  
Stock diameters available: .072/.078"  
Chemical composition: Cu 88%, Sn 4%, Zn 4%, Pb 4%  
Temper as machined: H04  
Modulus of elasticity:  $15 \times 10^6$  psi  
Tensile strength:  $70-80 \times 10^3$  psi  
Hardness as machined: 83 Rockwell B  
Density: .321 lbs/in<sup>3</sup>  
Electrical conductivity: 19% IACS\*  
Melting point: 1000°C/930°C (liquidus/solidus)

#### Properties of TELLURIUM COPPER:

Used for pins requiring a higher current carrying capacity than brass or phosphor bronze.  
Stock diameters available: .079/.093/.125/.156"  
Chemical composition: Cu 99.44%, Te .55%, P .008%  
Temper as machined: H02  
Modulus of elasticity:  $17 \times 10^6$  psi  
Tensile strength:  $43 \times 10^3$  psi  
Hardness as machined: 43 Rockwell B  
Density: .323 lbs/in<sup>3</sup>  
Electrical conductivity: 93% IACS\*  
Thermal conductivity: 91% IACS\*  
Melting point: 1075°C/1051°C (liquidus/solidus)

#### Properties of BERYLLIUM COPPER:

Chemical composition: Cu 98.1%, Be 1.9%  
Temper as stamped: TD01  
Properties after heat treatment (TH01):  
Modulus of Elasticity:  $19 \times 10^6$  psi  
Tensile Strength:  $175-205 \times 10^3$  psi  
Yield Strength (0.2% offset):  $150-185 \times 10^3$  psi  
Elongation: 3-10%  
Stress Relaxation†: 96% of stress remains after 1,000 hours @ 100 °C  
70% of stress remains after 1,000 hours @ 200 °C  
Hardness: 36-43 Rockwell C  
Density: .298 lbs/in<sup>3</sup>  
Electrical Conductivity: 22% IACS\*  
Melting point: 980°C/865°C (liquidus/solidus)

†Since BeCu loses its spring properties over time at high temperatures; it is rated for continuous use up to 150°C. For "down-hole" and "burn-in" applications up to 300°C, Mill-Max offers four contacts (#24, #26, #27 & #38) made from Beryllium Nickel Alloy 360 (UNS N03360)

#### Properties of BERYLLIUM NICKEL:

Chemical composition: Ni 97.6%, Be 1.9%, Ti 0.5%  
Modulus of Elasticity:  $27-30 \times 10^6$  psi

Tensile Strength:  $245 \times 10^3$  psi min.  
Yield Strength (0.2% offset):  $200 \times 10^3$  psi min.  
Elongation: 9% min.  
Hardness: 49 Rockwell C  
Density: .294 lbs/in<sup>3</sup>  
Electrical Conductivity: 7% IACS\*  
Melting point: 1,325°C/1,195°C (liquidus/solidus)

\*International Annealed Copper Standard, i.e.: as a % of pure copper.

### PROPERTIES OF PLASTICS USED BY MILL-MAX

Standard plastics used for catalog products:

#### Injection Molded

**PCT Polyester**, High Temp (Thermx CG933, black)  
**Nylon46**, High Temp (Stanyl TE250F6 {30% glass} or TE250F9 {45% glass}, black)  
**PPS**, High Temp (Ryton R-4-200)

#### Machined

**FR-4 Epoxy/Glass Laminate**. Thicknesses available: .010", .020", .031", .047", .062", .093", .125" (natural color, beige)  
**FR-4 Epoxy/Glass Laminate**, .055" thick (black)  
**G-30 Polyimide/Glass Laminate**, .062" thick (natural color, brown)

### TEMPERATURE COMPARISON OF MOLDED INSULATORS

MATERIAL	BRAND	GRADE	HEAT DEFLECTION TEMP. (per ASTM D 648)
PCT Polyester	Thermx	CG-933	529°F (276°C) @ 66 psi
Nylon 46	Stanyl	TE250-F6 or F9	554°F (290°C) @ 264 psi
PPS	Ryton	R-4-200	>500°F (>260°C) @ 264 psi

Note: Materials above 446°F (230°C) are considered suitable for "eutectic" reflow soldering, above 500°F (260°C) for "lead-free" reflow soldering.

**PCT is the standard plastic used with RoHS "lead-free" plated pins.**

#### MILL-MAX STANDARD PLATINGS (FINISHES):

**GOLD** per ASTM B 488, Type 1 (99.7% min. gold),  
Code C (130-200 HK {Knoop hardness}),  
Class (thickness) per customer's requirements  
**SILVER** per ASTM B 700, Type 1 (99.9% min. silver),  
Grade B (Bright),  
Class S (anti-tarnish treatment),  
Thickness (7.5µm/300µ") used for solder terminals)  
**TIN/LEAD** (93/7) per ASTM B 545 (Appendix X6.3.2.5 to eliminate whisker growth)  
Class A (2.5µm/100µ")  
or Class B (5µm/200µ"),  
Bright finish (Matte available to order)  
**ELECTRO-SOLDER** (60/40) per ASTM B 579, SC2 (8µm/300µ"),  
Bright finish (Matte available to order)

#### Standard finishes available for RoHS "lead-free" applications:

**GOLD** per ASTM B 488, Type 1 (99.7% min. gold),  
Code C (130-200 HK {Knoop hardness}),  
Class (thickness) per customer's requirements  
**TIN** (100%) per ASTM B 545, Class A (2.5µm/100µ")  
or Class B (5µm/200µ"),  
Matte finish (With whisker and oxide inhibitors and a nickel underplate)

#### ALL MILL-MAX PARTS REQUIRE AN UNDERPLATE:

Brass parts need a barrier plate to prevent zinc diffusion, 50µ" min. nickel or 100µ" min. copper is recommended by ASTM B 545 & 579. ASTM B 488 also recommends a 50µ" min. nickel barrier plate beneath gold to prevent copper diffusion inherent with all copper alloy products.

#### MILL-MAX STANDARD UNDERPLATES:

**NICKEL** per ASTM B 689, Type 2 (Bright),  
Class 1.25 (1.25µm/50µ") or Class 2.5 (2.5µm/100µ")

Also available for military & "non-magnetic" applications:

**COPPER** per ASTM B 734, Class 2.5 (2.5µm/100µ")  
or Class 5 (5µm/200µ")



**Annealing** - Refers to a brass pin that has been softened by heat treatment which makes the pin easier to crimp, rivet (swage) or bend.

**Carrier** - An assembly consisting of an insulator with male pins onto which receptacles are loaded. This assembly is employed as a fixture during the soldering operation and is then removed leaving a PC board populated with individual receptacles. Female carriers that load male pins are also available for special applications.

**Clip** - See Contact.

**Closed Entry** - Refers to female contacts where the front rim prevents the insertion of an oversize pin that would otherwise damage the contact.

**Compliancy** - Contact's ability to accept multiple insertions and extractions of a wide range of pin shapes and sizes while retaining its original configuration.

**Compliant Press Fit** - Method of mounting an interconnect component to a PC board where a drilled and slotted receptacle or pin is pressed into a plated-through-hole without damaging the hole.

**Constant Usage Temperature (CUT)** - Constant Usage Temperature is a measure of the maximum temperature that a material may be exposed to for long periods of time, 1000 - 1500 hrs., before degradation of its electrical and mechanical properties occurs.

**Contact (and Contact Clip)** - Multi-finger spring insert of a receptacle which completes the electrical path between a male pin and a female receptacle. Also referred to as a clip.

**Contact Rating** - Current carrying capability of a contact measured in amperes with respect to temperature rise above ambient.

**Contact Resistance** - The electrical resistance at the point of connection determined by the contact geometry, area of contact, plating and normal force.

**Coplanarity** - Refers to the measurement of multiple points and their distance from a respective plane. This is particularly useful for surface mount parts to determine the maximum amount of difference in the height of the surfaces that need to be soldered.

**Electroplating** - The electrodepositing of a metal coating on a conductive object such as a pin, shell, or contact clip.

**Electro-vibratory Plating** - An electroplating system where the parts are processed in a vibrating basket which ensures uniform plating thickness and avoids damage to delicate parts.

**End Stackable** - The ability for connectors to be mounted end to end while maintaining grid or spacing.

**Extraction Force (or Withdrawal Force)** - The force required to remove a lead from a contact.

**Epoxy** - Woven glass cloth epoxy laminate. Classified as a thermoset, the woven fibers of these materials enable them to withstand high temperatures without being damaged. Cut from large sheets of material, the insulator is then machined on a high speed drill/router, the same way as printed circuit boards are fabricated.

**Electrostatic Discharge (ESD)** - The momentary electric current that flows between two objects that may cause damage to electronic equipment.

**Flash (Plating)** - A very thin plating, usually less than 10 micro inches, only enough metal to uniformly cover the surface of the base metal.

**Flatness** - Sometimes used in place of coplanarity, flatness refers to the amount of variation of a plane or surface.

**Floating Contact** - In surface mount sockets, a receptacle designed to move up and down freely in an insulator to compensate for unevenly dispensed solder paste.

**Free Machining Alloy** - An alloy which is easy to machine, e.g. brass alloy 360.

**Fretting** - A form of corrosion caused by vibration.

**Gas Tight Connection** - An electrical connection of sufficient pressure to prevent the intrusion of a corrosive atmosphere into the contact area.

**Heat Deflection Temperature (HDT)** - An industry recognized test for comparing the short term effects of high temperature on plastics.

**Heat Treating** - The process of using specific heating and cooling cycles to alter the mechanical properties of an alloy. Generally, heat treating can harden or soften a metal depending on the material, the parameters used and the desired physical property.

**Hex Press Fit** - A method of press-fitting either a pin or receptacle, using a hexagonal cross section, into a plated through-hole without causing damage to the hole while still maintaining a gas tight seal.

**High Speed Turning** - See Precision-Machined.

**Injection Molding** - A method of molding plastics by first heating granular plastic to its molten state and injecting it into the mold cavity where the plastic solidifies and is then ejected from the cavity.

**Insertion Force** - The force required to insert a male lead into a female socket.

**Knurl** - A vertical serration machined around the diameter of an interconnect pin providing a retention feature for press-fitting in a PC board or insulator and also preventing rotation of the pin.

**LCP (Liquid Crystal Polymer)** - Classified as a thermoplastic, LCP is a hard, rigid material which exhibits outstanding strength at high temperatures and exceptional strength and toughness in its thin walls. Applications: LCP is used as an insulator material for tight grid (.050", 2mm) connectors and extremely high temperature requirements.

**Mating Pin** - The pin used to interconnect two electronic devices by inserting it into the contact. Critical features are diameter, length, and shape (but not limited to.)

**Machined** - See Precision-Machined.

**Migration** - For a brass part plated with tin or gold, the migration of zinc from brass to the surface of the plating. This becomes zinc oxide and renders the part unsolderable. Zinc migration is prevented by using a copper or nickel underplate as a barrier.

**Nylon 46** - Classified as thermoplastics. Nylon 46 offers superior heat resistance, good electrical properties and excellent toughness in its thin walls, which are desirable characteristics for connector insulators. Its superior strength in thin walls enables the press-fitting of pins in close proximity to each other without cracking or warping the material, making it ideal for molding 2mm and .050" grid insulators. Nylon 46 is suitable for high temperature applications including vapor phase, infra-red reflow and wave soldering operations.

**Passive Device or Component** - An electronic connector that consumes electrical energy, but does not produce electrical energy. Passive devices are not susceptible to significant ESD damage.

**PCB** - Printed Circuit Board.

**PCT (Polycyclohexane Terephthalate)** - Thermoplastic polyester is rated for higher temperatures. PCT is a standard material on DIP and SIP insulators for higher temperature operations. All PGA and surface mount products are molded from PCT and are suitable for infra-red, vapor phase and wave soldering.

**Plating** - A process in which metals (e.g. gold, tin-lead, nickel, silver) are electrically deposited onto a base metal in very thin and precise thicknesses.

**Plated Through-Hole** - A hole in a printed circuit board which has metallic walls connected to conductors on the surface or inside the board, in which the component lead is inserted and soldered.

**Precision-Machined** - Manufacturing process whereby a rapidly turning solid metal rod is cut to precise tolerances.

**Receptacle** - Female contact consisting of an outer shell and inner spring contact (clip) designed for multiple mating/unmating cycles with a male pin or component lead.

**Screw-Machined** - See Precision-Machined.

**Secondary Machining** - A process in which holes, slots, flats, squares or other special features may be machined onto a pin or receptacle after the basic shape of the part has been turned on a high speed lathe.

**Shrink DIP Package** - An IC which has a pin spacing of .070" on centers.

**Skiving** - The removal of a thin amount of plating when pins or contacts are press fit. For example, soft platings may yield some amount of skiving upon press fitting into an insulator or board. Skiving may also appear under a contact clip pressed into a receptacle shell.

**Standoff** - A protrusion at the bottom of the connector used to raise it off the PC board to aid in solder fillet formation, board inspection, flux removal and cleaning.

**Swage Mount** - A type of mounting commonly used with solder terminals and printed circuit pins where one end of the terminal is flared out (riveted) securing it to the PCB.

**Thermal Coefficient of Expansion (TCE)** - Expansion of material caused by an increase in temperature.

**Thermoset** - Type of plastic which is heat cured into a permanent shape, and due to chemical reaction, cannot be remelted.

**Thermoplastics** - Type of plastic which is molded under heat and pressure and can be remelted & reused many times.

**Top Plate** - Final surface plating over base metal and underplating.

**Underplate** - Plating between the base metal and the top plating.

**Withdrawal Force (or Extraction Force)** - The force required to remove a lead from a contact.

**Wrapost (Terminal or Receptacle)** - The length of square cross section of certain pins and receptacles which is used for making electrical connections via wire wrapping.

Wire wrapping is a process in which wire is wrapped around the post to form a gas-tight connection without soldering.



# INDEX

## NUMERICAL LISTING AND LOCATION OF MILL-MAX SOCKET ASSEMBLY NUMBERS WITH REFERENCE TO MILL-MAX PINS

MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #	MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #
101-XX-XXX-41-56X000	1001/0156	27	163-XX-XXX-00-001000	1106-3	49
104-XX-XXX-41-770000	0477	28	170-XX-XXX-00-001000	0700	50
104-XX-XXX-41-780000	0478	28	173-XX-XXX-00-001000	0730-3	50
110-XX-210-10-001000	1001	63	180-XX-XXX-00-001000	8000	51
110-XX-210-10-002000	1001	64	182-XX-XXX-00-001000	8301-2	51
110-XX-3XX-10-001000	1001	63	183-XX-XXX-00-001000	8301-3	51
110-XX-3XX-10-002000	1001	64	210-XX-XXX-41-001000	1001	31
110-XX-3XX-10-003000	1001	64	210-XX-XXX-41-101000	1001	33
110-XX-3XX-10-004000	1001	64	210-XX-XXX-41-105000	1005	37
110-XX-3XX-10-005000	1001	64	210-XX-XXX-41-105799	1005	37
110-XX-XXX-41-001000	1001	22	214-XX-XXX-01-670799	1434	40
110-XX-XXX-41-105000	1005	36	214-XX-XXX-01-670800	1434	40
110-XX-XXX-41-530000	1001	32	217-XX-764-41-005000	1802	57
110-XX-XXX-41-605000	1005	26	222-XX-XXX-41-001000	0089-2	31
110-XX-XXX-41-801000	1001	30	223-XX-XXX-41-001000	0088-3	31
111-XX-XXX-41-001000	0134	23	223-XX-XXX-41-101000	0038-3	34
113-XX-XXX-41-117000	1334/1434	39	227-XX-764-41-002000	1702-2	57
114-XX-XXX-41-117000	1434	38	227-XX-764-41-003000	1703-3	57
115-XX-XXX-41-001000	0501	24	296-XX-010-30-691800	4077/4078	62
115-XX-XXX-41-003000	1534	25	296-XX-010-30-692800	4077/4078	62
116-XX-XXX-41-001000	0153-5	43	299-XX-XXX-10-001000	1103/0903	61
116-XX-XXX-41-003000	0153-2	43	299-XX-XXX-10-002000	1103/0904	61
116-XX-XXX-41-006000	0153-1	43	299-XX-XXX-11-001000	1103/1610	61
116-XX-XXX-41-007000	0153-3	43	299-XX-210-12-001800	1002-X	62
116-XX-XXX-41-008000	0153-4	43	301-XX-1XX-41-560000	0156/1001	73
117-XX-XXX-41-005000	1802	57	304-XX-1XX-41-770000	0477	97
117-XX-XXX-41-105000	1802	58	304-XX-1XX-41-780000	0478	97
121-XX-XXX-41-001000	0040-1	41	310-XX-1XX-40-023000	1023	77
122-XX-XXX-41-001000	0089-2	41	310-XX-1XX-41-001000	1001	73,89
122-XX-XXX-41-801000	0089-2	30	310-XX-1XX-41-105000	1005	78
123-XX-XXX-41-001000	0088-3	41	310-XX-1XX-41-107000	1005	78
123-XX-XXX-41-801000	0088-3	30	311-XX-1XX-41-001000	0134	89
124-XX-XXX-41-002000	0086-4	41	315-XX-1XX-41-001000	0501	89
126-XX-XXX-41-001000	2601	42	315-XX-1XX-41-003000	1534	89
126-XX-XXX-41-002000	2602	42	316-XX-1XX-41-001000	0153-5	91
126-XX-XXX-41-003000	2603	42	316-XX-1XX-41-003000	0153-2	91
127-XX-XXX-41-002000	1702-2	57	316-XX-1XX-41-006000	0153-1	91
127-XX-XXX-41-003000	1703-3	57	316-XX-1XX-41-007000	0153-3	91
134-XX-XXX-00-000000	3400	54	316-XX-1XX-41-008000	0153-4	91
134-XX-XXX-00-010000	3401	54	317-XX-121-41-005000	1802	57
134-XX-XXX-00-020000	3402	54	317-XX-121-41-105000	1802	58
134-XX-XXX-00-050000	3405	54	319-XX-1XX-00-001000	1942	13
134-XX-XXX-00-100000	3410	54	319-XX-1XX-00-002000	1940	13
142-XX-XXX-00-591000	4259-1	55	319-XX-1XX-00-005000	1938	13
142-XX-XXX-00-592000	4259-2	55	319-XX-1XX-30-041000	1941	13
142-XX-XXX-00-593000	4259-3	55	321-XX-1XX-41-001000	0040-1	93
142-XX-XXX-00-594000	4259-4	55	322-XX-1XX-41-001000	0089-2	93
146-XX-XXX-41-012000	4612	29	323-XX-1XX-41-001000	0088-3	93
146-XX-XXX-41-013000	4613	29	324-XX-1XX-41-002000	0086-4	93
150-XX-XXX-00-001000	0290	48	326-XX-1XX-41-001000	2601	95
150-XX-XXX-00-106000	3404	56	326-XX-1XX-41-002000	2602	95
151-XX-XXX-00-003000	5503	52	326-XX-1XX-41-003000	2603	95
151-XX-XXX-00-004000	5504	52	327-XX-121-41-002000	1702-2	57
151-XX-XXX-00-005000	5505	52	327-XX-121-41-003000	1703-3	57
151-XX-XXX-00-009000	5509	53	329-XX-1XX-41-540000	2954	75
151-XX-XXX-00-010000	5510	53	329-XX-1XX-00-560000	2956-1	76
151-XX-XXX-00-011000	5511	53	330-XX-1XX-00-240000	3024	13
153-XX-XXX-00-001000	5301	48	334-XX-1XX-00-000000	3400	105
160-XX-XXX-00-001000	0282	49	334-XX-1XX-00-010000	3401	105
162-XX-XXX-00-001000	1106-2	49	334-XX-1XX-00-020000	3402	105
162-XX-XXX-00-180000	6218	59	334-XX-1XX-00-050000	3405	105
162-XX-XXX-30-180000	6218	60	334-XX-1XX-00-100000	3410	105





# INDEX

## NUMERICAL LISTING AND LOCATION OF MILL-MAX SOCKET ASSEMBLY NUMBERS WITH REFERENCE TO MILL-MAX PINS

MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #	MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #
335-XX-1XX-00-160000	3516	102	426-XX-2XX-41-003000	2603	96
340-XX-1XX-30-780100	4078	69,76	429-XX-2XX-41-540000	2954	75
342-XX-1XX-00-591000	4259-1	106	429-XX-2XX-00-560000	2956-0	76
342-XX-1XX-00-592000	4259-2	106	430-XX-2XX-10-240000	3024	14
342-XX-1XX-00-593000	4259-3	106	435-XX-2XX-00-160000	3516	102
342-XX-1XX-00-594000	4259-4	106	442-XX-2XX-00-591000	4259-1	107
346-XX-1XX-41-012000	4612	97	442-XX-2XX-00-592000	4259-2	107
346-XX-1XX-41-013000	4613	97	442-XX-2XX-00-593000	4259-3	107
350-XX-1XX-00-001000	0290	79,108	442-XX-2XX-00-594000	4259-4	107
350-XX-1XX-00-006000	3404	73	446-XX-2XX-41-012000	4612	98
350-XX-1XX-00-106000	3404	78	446-XX-2XX-41-013000	4613	98
350-XX-1XX-00-107000	3404	78	450-XX-2XX-00-001000	0290	79,109
351-XX-1XX-00-003000	5503	103	450-XX-2XX-00-006000	3404	74
351-XX-1XX-00-004000	5504	103	450-XX-2XX-00-106000	3404	78
351-XX-1XX-00-005000	5505	103	451-XX-2XX-00-003000	5503	104
351-XX-1XX-00-009000	5509	103	451-XX-2XX-00-004000	5504	104
351-XX-1XX-00-010000	5510	103	451-XX-2XX-00-005000	5505	104
351-XX-1XX-00-011000	5511	103	451-XX-2XX-00-009000	5509	104
351-XX-1XX-40-002000	5102	77	451-XX-2XX-00-010000	5510	104
353-XX-1XX-00-001000	5301	110	451-XX-2XX-00-011000	5511	104
360-XX-1XX-00-001000	0282	108	453-XX-2XX-00-001000	5301	111
362-XX-1XX-00-001000	1106-2	110	460-XX-2XX-00-001000	0282	109
363-XX-1XX-00-001000	1106-3	110	463-XX-2XX-00-001000	1106-3	111
364-XX-1XX-00-580000	6458	102	464-XX-2XX-00-580000	6458	102
370-XX-1XX-00-001000	0700	108	470-XX-2XX-00-001000	0700	109
373-XX-1XX-00-001000	0730-3	110	473-XX-2XX-00-001000	0730-3	111
380-XX-1XX-00-001000	8000	75,108	480-XX-2XX-00-001000	8000	75,109
382-XX-1XX-00-001000	8301-2	110	483-XX-2XX-00-001000	8301-3	111
383-XX-1XX-00-001000	8301-3	110	499-XX-2XX-10-003000	1103/1602	74
388-XX-102-11-740799	8874	125	499-XX-2XX-10-008000	1938/1940	14
388-XX-102-11-740800	8874	125	499-XX-2XX-10-009000	5011/5113	74
395-XX-101-03-380000	8433	124	507-10-XXX-XX-XXX437	0737	115
395-XX-101-07-350000	8994	124	510-XX-XXX-XX-XXX00X	1001	114
395-XX-101-34-340000	8993	124	511-XX-XXX-XX-XXX00X	0134	114
399-XX-1XX-10-003000	1103	73	513-XX-XXX-XX-XXX085	1385	114
399-XX-1XX-10-008000	1940	13	514-XX-XXX-XX-XXX034	1434	114
399-XX-1XX-10-009000	5011	73	515-XX-XXX-XX-XXX00X	0501	114
399-XX-0XX-21-300000	9930	69	518-XX-XXX-XX-XXX00X	180X	114
399-XX-0XX-00-310000	9931	69	522-XX-XXX-XX-XXX00X	0089-2	114
410-XX-2XX-10-001000	1001	63	523-XX-XXX-XX-XXX00X	0088-3	114
410-XX-2XX-10-002000	1001	63	540-10-XXX-XX-XXX448	4048	117
410-XX-2XX-41-001000	1001	74,90	540-10-XXX-XX-XXX454	4054	117
410-XX-2XX-41-105000	1005	78	540-10-XXX-XX-XXX498	4098	117
411-XX-2XX-41-001000	0134	90	540-44-XXX-17-40000X	N/A	120
414-XX-2XX-41-117000	1434	76	550-XX-XXX-XX-XXX012	5012	115
415-XX-2XX-41-001000	0501	90	551-XX-XXX-XX-XXX003	5503	115
415-XX-2XX-41-003000	1534	90	551-XX-XXX-XX-XXX004	5504	115
416-XX-2XX-41-001000	0153-5	92	551-XX-XXX-XX-XXX005	5505	115
416-XX-2XX-41-003000	0153-2	92	579-10-XXX-XX-XXX429	7929	117
416-XX-2XX-41-006000	0153-1	92	582-11-XXX-XX-XXX414	8214	117
416-XX-2XX-41-007000	0153-3	92	587-10-XXX-XX-XXX437	8737	117
416-XX-2XX-41-008000	0153-4	92	594-XX-020-01-007032	8857-X	62
419-XX-2XX-00-001000	1942	14	599-11-XXX-XX-XXX428	9928	117
419-XX-2XX-00-002000	1940	14	599-10-XXX-XX-XXX429	9929	117
419-XX-2XX-00-005000	1938	14	599-11-XXX-XX-XXX442	9942	117
419-XX-2XX-30-041000	1941	14	599-XX-XXX-XX-XXX476	9976	115
421-XX-2XX-41-001000	0040-1	94	605-XX-XXX-11-480000	0548	46
422-XX-2XX-41-001000	0089-2	94	605-XX-XXX-XX-XXX048	0548	116
423-XX-2XX-41-001000	0088-3	94	612-XX-XXX-41-001000	0255	44
424-XX-2XX-41-002000	0086-4	94	612-XX-XXX-41-002000	8855	44
426-XX-2XX-41-001000	2601	96	612-XX-XXX-41-003000	0135	44
426-XX-2XX-41-002000	2602	96	612-XX-XXX-41-004000	0132	44



# INDEX

## NUMERICAL LISTING AND LOCATION OF MILL-MAX SOCKET ASSEMBLY NUMBERS WITH REFERENCE TO MILL-MAX PINS

MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #	MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #
614-XX-XXX-31-002000	0442	47	816-22-0XX-10-00X-101	0908-X	12
614-XX-XXX-31-007000	1407	46	818-22-0XX-10-00X-101	0908-X	12
614-XX-XXX-31-012000	0552-1	47	819-22-0XX-30-001101	0913-0	7.1
614-XX-XXX-31-018000	0552-2	47	820-22-0XX-30-001101	0913-0	7.1
614-XX-XXX-41-001000	1401	45	821-22-0XX-10-00X-101	0906-X	10
614-XX-XXX-XX-XXX007	1407	116	823-22-0XX-10-00X-101	0906-X	10
614-XX-XXX-XX-XXX012	0552-1	116	825-22-0XX-10-001101	0914	11
614-XX-XXX-XX-XXX0XX	1401	116	827-22-0XX-10-001101	0914	11
712-XX-XXX-41-001000	0255	99	830-XX-0XX-10-001000	5012	70
714-XX-XXX-31-007000	1407	100	830-XX-0XX-20-001000	3790	72
714-XX-XXX-31-012000	0552-1	101	830-XX-0XX-30-001000	6218	71
714-XX-XXX-31-018000	0552-2	101	830-XX-0XX-30-002000	6218	71
714-XX-XXX-41-001000	1401	100	831-XX-0XX-10-001000	1802	70
800-XX-0XX-10-001000	7007	81	831-XX-0XX-20-001000	1805	72
800-XX-0XX-10-002000	5016	80	831-XX-0XX-30-001000	1802	71
800-XX-0XX-10-004000	3077	86	831-XX-0XX-30-002000	1802	71
800-XX-0XX-20-001000	5005	81	832-XX-XXX-10-001000	5012	70
800-XX-0XX-20-201000	5005	88	832-XX-XXX-20-001000	3790/3796	72
800-XX-0XX-30-001000	7007	85	832-XX-XXX-30-001000	6218	71
800-XX-0XX-40-002000	1502	77	833-XX-XXX-10-001000	1802	70
800-XX-0XX-61-001000	5601	83	833-XX-XXX-20-001000	1805/3805	72
800-XX-0XX-62-001000	5602	83	833-XX-XXX-30-001000	1802	71
801-XX-0XX-10-004000	1313	86	834-XX-0XX-10-001000	3435	87
801-XX-0XX-10-001000	1304	81	835-XX-0XX-10-001000	3435	87
801-XX-0XX-10-002000	1303	80	850-XX-0XX-10-001000	4006-0	66
801-XX-0XX-10-003000	1303	79	850-XX-0XX-20-001000	4006-1	67
801-XX-0XX-10-012000	1303	80	850-XX-0XX-30-001000	4006-0	68
801-XX-0XX-10-013000	1303	79	850-XX-0XX-30-002000	4006-0	68
801-XX-0XX-10-201000	1304	88	851-XX-0XX-10-001000	4890-0	66
801-XX-0XX-10-212000	1303	88	851-XX-0XX-10-002000	0467	66
801-XX-0XX-20-001000	1305	81	851-XX-0XX-10-011000	4890-1	66.1
801-XX-0XX-20-201000	1305	88	851-XX-0XX-10-021000	4890-2	66.1
801-XX-0XX-30-001000	1304	85	851-XX-0XX-20-001000	4890-1	67
801-XX-0XX-40-002000	1303	77	851-XX-0XX-30-001000	4890-0	68
801-XX-0XX-61-001000	4614	83	851-XX-0XX-30-002000	4890-0	68
801-XX-0XX-62-001000	4615	83	852-XX-XXX-10-001000	4006-0	66
802-XX-0XX-10-001000	7007	82	852-XX-XXX-20-001000	4006-1/2	67
802-XX-0XX-10-002000	5016	80	852-XX-XXX-30-001000	4006-0	68
802-XX-XXX-10-004000	3077	86	853-XX-XXX-10-001000	4890-0	66
802-XX-0XX-20-001000	5005/5107	82	853-XX-0XX-10-011000	4890-1	66.1
802-XX-0XX-30-001000	7007	85	853-XX-0XX-10-021000	4890-2	66.1
802-XX-0XX-61-001000	5601	84	853-XX-XXX-20-001000	4890-1/2	67
802-XX-0XX-62-001000	5602	84	853-XX-XXX-30-001000	4890-0	68
803-XX-XXX-10-001000	1304	82	854-22-0XX-10-001101	0950-0	12.1
803-XX-0XX-10-002000	1303	80	855-22-0XX-10-001101	0950-0	12.1
803-XX-0XX-10-003000	1303	79	854-22-0XX-30-001101	0951-0	12.2
803-XX-XXX-10-004000	1313	86	856-XX-0XX-10-051000	1933	14.1
803-XX-XXX-20-001000	1305/1306	82	856-XX-0XX-30-051000	1935	14.1
803-XX-XXX-30-001000	1304	85	857-XX-0XX-10-051000	1933	14.1
803-XX-XXX-61-001000	4614	84	857-XX-0XX-30-051000	1935	14.1
803-XX-XXX-62-001000	4615	84	862-XX-121-00-180000	6218	59
810-22-0XX-40-001101	0916-0	7.2	862-XX-121-30-180000	6218	60
811-22-0XX-30-00X-101	0900-X	06			
811-22-00X-30-00X-191	0900-X	09	896-43-004-00-000000	N/A	122
812-22-0XX-30-00X-101	0907-X	07	896-43-004-90-000000	N/A	122
812-22-0XX-30-01X-101	0907-X/0908-X	08	896-43-005-00-100001	N/A	121
812-22-00X-30-00X-191	0907-X	09	896-43-008-90-000000	N/A	122
813-22-0XX-30-00X-101	0900-X	06	897-43-004-90-000000	N/A	122
813-22-0XX-30-00X-191	0900-X	09	897-43-005-00-100001	N/A	121
814-22-0XX-30-00X-101	0907-X	07	896-43-004-00-000000	N/A	122
814-22-0XX-30-01X-101	0907-X/0908-X	08	896-43-004-90-000000	N/A	122
814-22-0XX-30-00X-191	0907-X	09	896-43-005-00-100001	N/A	121



# INDEX

## NUMERICAL LISTING AND LOCATION OF MILL-MAX SOCKET ASSEMBLY NUMBERS WITH REFERENCE TO MILL-MAX PINS

MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #	MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #
896-43-008-90-000000	N/A	122			
897-43-004-90-000000	N/A	122			
897-43-005-00-100001	N/A	121			
917-XX-XXX-41-001000	1701	123			
917-XX-XXX-41-005000	1705	123			
940-44-XXX-17-40000X	N/A	118			
940-44-XXX-24-000000	N/A	119			
999-11-XXX-10-000000	N/A	125			



# INDEX

## NUMERICAL LISTING AND LOCATION OF MILL-MAX PINS



PART#	PAGE	PART#	PAGE	PART#	PAGE	PART#	PAGE	PART#	PAGE	PART#	PAGE
0038	166	0319	151	0407	146	0677	134	1040	166	1782	141
0039	166	0322	152	0415	146	0678	135	1045	166	1801	136
0040	166	0323	152	0433	157	0679	134	1047	167	1802	140
0066	166	0324	152	0434	157	0680	133	1052	169	1803	140
0067	166	0325	152	0435	157	0682	134	1053	169	1804	140
0068	166	0326	145	0436	157	0697	135	1064	195	1805	140
0086	166	0327	153	0442	128	0700	183	1065	134	1806	140
0088	166	0328	153	0444	167	0703	132	1066	134	1807	140
0089	166	0329	154	0445	167	0707	132	1067	178	1808	140
0132	136	0330	148	0447	137	0730	195	1068	195	1873	147
0133	136	0331	151	0461	129	0739	155	1070	195	1933	180
0134	136	0333	153	0462	131	0814	154	1071	195	1935	180
0135	136	0334	153	0463	131	0850	17.2	1072	195	1938	185
0136	137	0335	149	0464	127	0851	17.2	1083	194	1940	185
0137	137	0336	152	0466	131	0900	15	1090	194	1941	185
0138	137	0338	143	0467	129	0901	16	1092	195	1942	185
0139	137	0339	143	0468	132	0903	138	1093	195	2086	129
0141	137	0340	153	0477	133	0904	138	1094	192	2101	198
0145	137	0341	135	0478	133	0905	15	1095	193	2102	196
0146	137	0342	157	0479	165	0906	16	1096	195	2103	205
0147	136	0343	154	0489	131	0907	15	1097	193	2104	205
0148	137	0344	152	0490	161	0908	16	1103	137	2105	205
0149	133	0345	153	0491	161	0910	17	1104	139	2106	205
0152	137	0347	154	0492	158	0912	184	1105	159	2107	205
0153	138	0348	152	0493	161	0913	15	1106	195	2108	196
0156	136	0349	152	0496	159	0914	16	1109	136	2109	196
0240	139	0350	162	0498	139	0915	178	1110	192	2110	198
0252	135	0351	153	0501	133	0922	16	1122	195	2111	196
0253	135	0354	156	0504	179	0925	15	1124	192	2112	205
0255	136	0355	156	0505	179	0927	15	1130	177	2113	196
0257	178	0356	154	0508	175	0928	15	1147	130	2115	210
0259	185	0357	153	0512	132	0929	16	1179	174	2297	168
0265	183	0358	154	0520	190	0930	16	1210	192	2301	199
0270	183	0359	154	0522	178	0932	16	1212	193	2302	207
0272	183	0360	154	0529	127	0933	17.1	1213	193	2303	206
0273	146	0362	158	0542	178	0934	15	1214	193	2304	200
0275	183	0363	158	0548	128	0936	15	1215	192	2305	200
0279	148	0364	158	0550	132	0940	186	1216	193	2306	200
0280	168	0365	158	0552	129	0950	17.1	1221	192	2307	200
0281	168	0366	158	0553	128	0951	17.1	1222	192	2308	197
0282	183	0367	158	0554	128	0952	178	1261	138	2309	211
0284	146	0368	159	0555	134	0962	17.1	1267	177	2310	199
0285	146	0370	161	0556	137	0967	17	1302	193	2311	200
0286	185	0372	158	0558	134	0980	16	1303	150	2312	197
0287	146	0373	153	0560	131	0990	17	1304	148	2313	212
0290	182	0378	143	0566	128	0995	188	1305	149	2314	208
0291	146	0379	165	0569	129	0997	17	1306	149	2315	207
0292	144	0381	158	0574	132	1001	136	1313	151	2316	198
0293	146	0382	169	0577	164	1005	137	1334	142	2317	198
0294	144	0383	169	0579	130	1010	192	1385	141	2318	211
0295	144	0385	141	0600	182	1011	192	1401	141	2319	212
0297	144	0387	161	0613	130	1012	192	1407	128	2320	206
0298	145	0388	163	0616	161	1013	137	1434	133	2321	212
0300	148	0389	163	0660	134	1020	192	1502	185	2322	206
0301	148	0390	163	0664	145	1021	192	1534	132	2323	206
0303	146	0391	161	0665	134	1022	192	1602	138	2324	196
0305	148	0393	161	0666	135	1023	142	1610	138	2325	199
0306	146	0394	161	0667	134	1024	139	1701	142	2326	210
0307	139	0395	162	0668	135	1030	166,193	1702	166	2328	206
0309	148	0396	145	0669	135	1031	166,193	1703	166	2329	197
0312	153	0397	144	0670	135	1032	166,193	1705	139	2333	198
0314	153	0398	144	0671	132	1033	135	1706	139	2348	199
0315	181	0399	148	0672	139	1034	166	1707	139	2352	207
0316	153	0400	149	0673	135	1035	166	1752	180	2355	199
0317	153	0401	150	0675	134	1036	166	1753	139	2362	207
0318	193	0405	152	0676	135	1038	138	1762	139	2365	199



# INDEX

## NUMERICAL LISTING AND LOCATION OF MILL-MAX PINS



PART#	PAGE	PART#	PAGE	PART#	PAGE	PART#	PAGE	PART#	PAGE	PART#	PAGE
2381	174	3044	158	3233	190	4614	149	6585	179	8853	155
2400	149	3061	130	3301	186	4615	149	6628	151	8855	142
2501	202	3077	182	3302	186	4622	140	6659	154	8857	142
2502	208	3100	155	3303	186	4689	171	6800	155	8859	179
2503	200	3101	188	3304	186	4825	171	6821	187	8862	142
2505	199	3102	188	3360	186	4890	131	6857	149	8864	145
2506	199	3103	188	3400	182	4900	160	7007	182	8866	140
2507	207	3104	188	3401	182	4964	172	7009	143	8874	130
2508	201	3105	188	3402	182	4965	172	7065	134	8876	185
2510	197	3106	188	3404	179	5005	182	7132	138	8877	142
2511	208	3110	187	3405	182	5011	181	7305	149	8885	175
2512	203	3111	187	3406	181	5012	175	7310	191	8894	132
2513	197	3112	184	3408	183	5016	182	7405	151	8898	137
2514	211	3113	186	3409	181	5035	172	7406	151	8919	182
2515	208	3114	184	3410	182	5059	154	7491	131	8940	178
2516	208	3115	184	3411	182	5062	173	7520	146	8947	127
2517	206	3116	177	3413	180	5063	172	7553	130	8952	189
2520	206	3117	184	3435	164	5102	185	7614	149	8953	189
2524	201	3118	184	3450	151	5107	182	7827	177	8954	189
2526	207	3119	184	3490	156	5113	181	8000	183	8955	189
2530	212	3120	188	3516	179	5137	171	8006	183	8963	163
2533	198	3121	175	3520	151	5155	176	8016	162	8964	142
2551	201	3122	188	3601	190	5231	191	8067	159	8969	176
2561	201	3123	188	3602	184	5240	172	8086	174	8975	128
2601	167	3124	188	3603	183	5275	192	8114	146	8979	176
2602	167	3125	188	3609	190	5280	165	8131	139	8995	180
2603	167	3126	188	3620	186	5291	165	8206	155	8996	160
2617	180	3128	175	3621	186	5295	145	8210	127	9000	178
2650	172	3129	177	3667	159	5301	194	8252	138	9016	161
2701	209	3130	186	3790	176	5342	142	8257	172	9019	144
2702	202	3131	184	3796	176	5359	164	8300	148	9022	174
2703	202	3132	187	3802	140	5364	165	8301	194	9036	176
2704	200	3133	190	3805	140	5435	177	8303	150	9039	144
2705	203	3134	186	3808	156	5503	181	8330	173	9050	171
2706	212	3135	177	3907	141	5504	181	8331	151	9051	176
2707	197	3136	187	3966	165	5505	181	8360	154	9064	160
2708	198	3137	187	4001	141	5509	181	8363	141	9075	180
2709	210	3138	190	4006	175	5510	179	8365	160	9081	175
2710	202	3139	184	4011	136	5511	179	8401	149	9083	171
2713	202	3140	188	4015	164	5522	129	8404	180	9086	173
2715	209	3141	188	4030	140	5531	130	8427	133	9092	191
2717	202	3142	189	4034	158	5552	131	8433	157	9101	147
2762	209	3144	190	4040	161	5556	176	8445	138	9113	171
2801	204	3145	189	4064	157	5557	131	8451	173	9137	171
2802	204	3146	189	4068	171	5601	187	8467	130	9159	176
2803	203	3147	177	4071	172	5602	187	8553	128	9184	156
2804	204	3148	187	4078	138	5650	147	8579	129	9185	172
2805	204	3149	188	4095	150	5660	137	8600	189	9214	161
2806	204	3150	187	4184	171	5739	132	8602	210	9218	180
2807	209	3151	186	4194	176	5834	159	8608	194	9222	156
2808	209	3152	190	4209	172	5960	141	8637	128	9225	127
2809	209	3153	188	4259	179	5970	133	8679	147	9228	173
2810	201	3154	178	4268	173	6002	143	8685	176	9234	137
2811	204	3155	176	4280	165	6021	147	8730	159	9265	174
2812	201	3156	212	4286	134	6023	129	8806	150	9280	160
2815	203	3157	178	4288	171	6092	173	8808	172	9293	145
2816	203	3158	178	4310	141	6095	173	8815	187	9324	158
2817	203	3159	189	4353	171	6142	174	8827	147	9353	151
2821	198	3185	141	4361	171	6192	130	8829	159	9354	151
2954	142	3210	177	4366	177	6214	129	8830	140	9359	154
2956	185	3221	188	4378	137	6218	175	8831	210	9363	142
3006	175	3222	188	4477	173	6252	140	8835	210	9372	159
3013	136	3223	188	4526	188	6401	150	8836	210	9393	149
3016	128	3230	189	4582	159	6458	180	8837	162	9401	159
3018	141	3231	190	4612	133	6477	173	8838	155	9407	130
3024	185	3232	189	4613	133	6547	172	8852	141	9462	130



# INDEX

## NUMERICAL LISTING AND LOCATION OF MILL-MAX PINS



PART#	PAGE	PART#	PAGE	PART#	PAGE	PART#	PAGE	PART#	PAGE
9548	128								
9553	130								
9801	159								
9808	147								
9872	174								
9873	165								
9970	133								
9976	183								