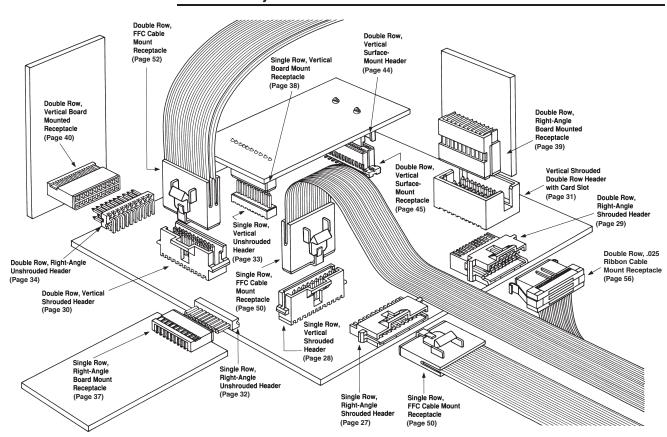


AMPMODU System 50 Connectors



The AMPMODU System 50 connector family includes a wide variety of high density board-to-board (thru-hole and surface-mount) and cable-to-board connectors. AMPMODU System 50 is composed of one- and two-row receptacles and post headers on .050 x .100 [1.27 x 2.54] spacing between contacts for extreme density and efficient use of printed circuit board area.

AMPMODU System 50 receptacles and header assemblies can be categorized in three groups: board-mount headers, board-mount receptacles and cable-to-board receptacles. Receptacle contacts and mating .015 [0.38] square posts are formed from high conductivity copper alloy and are selectively plated with gold to promote higher performance and reliability.

Board-mounted thru-hole post headers and receptacle connectors are available for right-angle and vertical mating configurations. Surfacemounted connectors are available in vertical, double row styles for parallel stacking applications. Shrouded post headers provide polarization to mating cable receptacles and aid alignment of mating connectors. Unshrouded headers allow close stacking of daughter cards. Vertical stacking connectors space parallel mated boards as shown in the illustration on page 63. Housings on all boardmount assemblies are made of high temperature tolerant materials and incorporate stand-offs for free drainage of flux cleaning solutions.

Cable-to-board connectors have integral latches for positive locking to shrouded

mating headers (thru-hole or surface-mount). Ribbon cable connectors mass terminate 30 AWG [0.05 mm²] solid and 32 AWG [0.03 mm²] stranded, .025 [0.64] centerline ribbon cable with PVC insulation.

Connectors for mass termination to FFC cable or flexible etched circuitry have dual beam contacts; options include shielded cable and solder tabs. Both types of cable connectors are available as component parts and as completed assemblies.

The variety of components and application possibilities, combined with small size and outstanding quality, make AMPMODU System 50 suitable for high density systems.

- Recognized under the Component Program of Underwriters
 Laboratories Inc. File No. E28476
- Certified by Canadian Standards Association*, File No. LR 7189



*CSA certification pending on certain products, as noted.

Dimensioning:

Dimensions are in inches and millimeters. Values in brackets are metric equivalents. Metric symbols used are:

mm (millimeter)
cm (centimeter)
m (meter)
mm² (square millimeter)
C (Celsius)
N (newton)
kg (kilogram)

■ Produced under a Quality Management System certified to ISO 9001

A copy of the certificate is available upon request.



Catalog 1307819 Revised 8-08

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

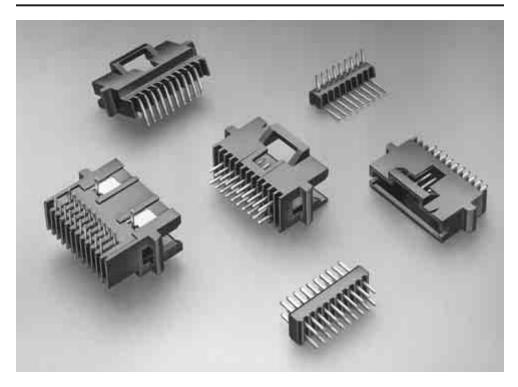
South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208



Thru-Hole Headers—Shrouded, $.050 \times .100 [1.27 \times 2.54]$ Centerline, Board-to-Board

Product Facts

- High density; contacts spaced on .050 x .100 [1.27 x 2.54] centers
- Single row; select sizes 4 thru 50 positions
- Double row; select sizes 10 thru 100 positions
- Stand-offs for ease of cleaning
- High temperature tolerant thermoplastic housings
- Shrouded and unshrouded headers available in single and double row, vertical and right-angle configurations



The AMPMODU System 50 interconnection system is designed to better meet industry's need for a high density interconnect system. The Board Mounted Thru-Hole Headers are available in shrouded and unshrouded versions. They are composed of single and double row post headers with .050 x .100 [1.27 x 2.54] spacing between contacts for extreme density and

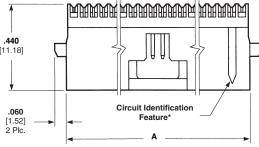
efficient use of printed circuit board area. The headers are available in 4 through 50 positions, in a single row configuration, and 10 through 100 positions, in a double row design.

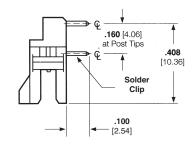
Board mounted post headers are available in right-angle and vertical configurations. Shrouded post headers provide polarization and alignment features for mating printed circuit boards and cable connectors, while unshrouded headers allow close stacking of daughter cards. Housings for the headers are made of black thermoplastic material with a 94V-0 rating. The housings have stand-offs for free drainage of flux cleaning solutions.



Single Row, Right-Angle with Solder Clips







Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Characteristics page 63

Mateable Connectors — pages 38, 49 & 50

PC Board Hole Layout — page 41

Technical Documents — page 64 **Product Specification 108-1093 Application Specification** 114-25031

.050	.190	.250
[1.27] Typ.	[4.83]	[6.35]
See Note 1.	ı	

No. of Pos.	Dimension A	Part Numbers	
4	.330 [8.38]	5-104074-7	
5	.380 [9.65]	5-104074-2	
6	.430 [10.92]	5-104074-8	
8	.530 [13.46]	6-104074-0	
10	.630 [16.00]	5-104074-1	
12	.730 [18.54]	6-104074-1	
15	.880 [22.35]	5-104074-3	
20	1.130 [28.70]	5-104074-4	
22	1.230 [31.24]	6-104074-4	
25	1.380 [35.05]	5-104074-5	
28	1.530 [38.86]	7-104074-0	
30	1.630 [41.40]	5-104074-6	
36	1.930 [49.02]	6-104074-6	
40	2.130 [54.10]	6-104074-7	
45	2.380 [60.45]	6-104074-8	
50	2.630 [66.80]	6-104074-9	

^{*}Circuit identification feature omitted on 4, 5 and 6 position headers.

Notes:

1. Solder Clips located as shown for 10 through 30 position headers.

2. Solder Clips located as shown for 4 through 8 and 36 through 50 position headers.

Note: All part numbers are RoHS compliant.

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Single Row, Vertical



Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .00050 [0.00127] nickel

Related Product Data

Performance Characteristics — page 63

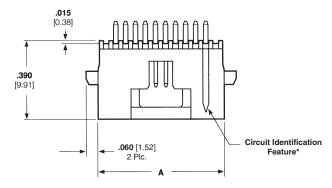
Mateable Connectors — pages 38, 49 & 50

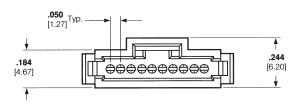
Board-to-Board Spacing — page 63 **PC Board Hole Layout** — page 41

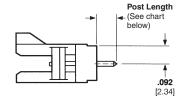
Technical Documents — page 64

Product Specification 108-1093
Application Specification

114-25031







		Part Numbers	
No. of	Dimension	Post Length	
Pos.	Α	.100 [2.54]	.145 [3.68]
4	.330 [8.38]	5-104071-7	_
5	.380 [9.65]	5-104071-2	_
6	.430 [10.92]	5-104071-8	_
8	.530 [13.46]	6-104071-0	_
10	.630 [16.00]	5-104071-1	_
12	.730 [18.54]	6-104071-1	5-104804-3
13	.780 [19.81]	6-104071-2	_
15	.880 [22.35]	5-104071-3	5-104804-2
17	.980 [24.89]	6-104071-3	_
20	1.130 [28.70]	5-104071-4	_
22	1.230 [31.24]	6-104071-4	_
25	1.380 [35.05]	5-104071-5	_
30	1.630 [41.40]	5-104071-6	_
36	1.930 [49.02]	6-104071-6	_
40	2.130 [54.10]	6-104071-7	_
50	2.630 [66.80]	6-104071-9	_

^{*}Circuit identification feature omitted on 4, 5, and 6 position headers.

Note: All part numbers are RoHS compliant.

Dimensions are in inches and



Double Row, Right-Angle with Solder Clips



Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

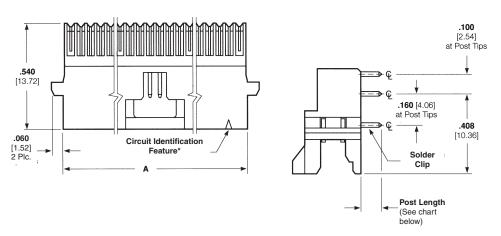
Related Product Data

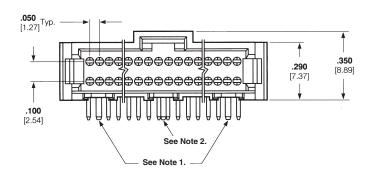
Performance Characteristics — page 63

Mateable Connectors — pages 40, 45, 51, 52, & 56

PC Board Hole Layout — page 41

Technical Documents — page 64 Product Specification 108-1093 Application Specification 114-25031





		Part Numbers	
No. of Pos.	Dimension A	Post Length	
PUS.	A	.100 [2.54]	.145 [3.68]
8	.330 [8.32]	5-104069-8	
10	.380 [9.65]	5-104069-4	6-104477-2
12	.430 [10.92]	_	5-104477-8
14	.480 [12.19]	6-104069-0	_
16	.530 [13.46]	6-104069-1	_
20	.630 [16.00]	5-104069-1	5-104477-2
24	.730 [18.54]	6-104069-2	6-104477-0
26	.780 [19.81]	6-104069-3	_
30	.880 [22.35]	5-104069-5	5-104477-3
34	.980 [24.89]	6-104069-4	_
40	1.130 [28.70]	5-104069-6	5-104477-4
50	1.380 [35.05]	5-104069-2	5-104477-5
60	1.630 [41.40]	5-104069-7	5-104477-9
68	1.830 [46.48]	6-104069-8	_
72	1.930 [49.02]	6-104069-6	5-104477-1
80	2.130 [54.10]	5-104069-3	5-104477-6
100	2.630 [66.80]	6-104069-7	5-104477-7

*Circuit identification feature omitted on 8, 10 and 12 position headers. **Notes:**

Solder Clips located as shown for 16 through 100 position headers.

2. Solder Clips located as shown for 8 through 12 and 60 through 100 position headers.

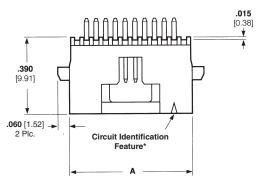
Note: All part numbers are RoHS compliant.

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Double Row, Vertical





Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contact — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127]nickel

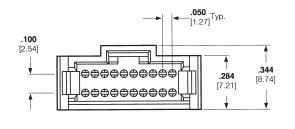
Related Product Data

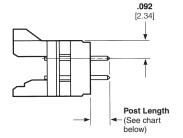
Performance Specifications — page 63

Mateable Connectors — pages 40, 45, 51, 52, & 56

Board-to-Board Spacing — page 63 **PC Board Hole Layout** — page 41

Technical Documents — page 64
Product Specification 108-1093
Application Specification
114-25031





		Part No	umbers
No. of Pos.	Dimension A	Post I	_ength
PUS.	A	.100 [2.54]	.145 [3.68]
10	.380 [9.65]	5-104068-2	_
12	.430 [10.92]	5-104068-8	_
14	.480 [12.19]	5-104068-9	_
16	.530 [13.46]	6-104068-0	5-104666-9
20	.630 [16.00]	5-104068-1	5-104666-1
24	.730 [18.54]	6-104068-1	6-104666-0
26	.780 [19.81]	6-104068-2	_
30	.880 [22.35]	5-104068-3	5-104666-2
34	.980 [24.89]	6-104068-3	_
40	1.130 [28.70]	5-104068-4	5-104666-3
44	1.230 [31.24]	6-104068-4	_
50	1.380 [35.05]	5-104068-5	5-104666-4
60	1.630 [41.40]	5-104068-6	5-104666-7
68	1.830 [46.48]	6-104068-8	5-104666-8
72	1.930 [49.02]	6-104068-5	_
80	2.130 [54.10]	6-104068-6	5-104666-5
100	2.630 [66.80]	6-104068-7	5-104666-6

^{*}Circuit identification feature omitted on 10 and 12 position headers.



Double Row, Vertical With Card Slots



Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

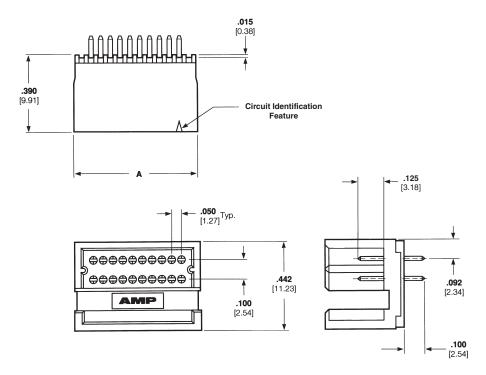
Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Specifications — page 63

Mateable Connectors — page 39 PC Board Hole Layout — page 41

Technical Documents — page 64
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No. of Pos.	Dimension A	Part Numbers
10	.394 [10.01]	5-104076-5
20	.644 [16.36]	5-104076-1
30	.894 [22.71]	5-104076-6
40	1.144 [29.06]	5-104076-3
50	1.394 [35.41]	5-104076-7
60	1.644 [41.76]	5-104076-2
80	2.144 [54.46]	5-104076-4
100	2.644 [67.16]	5-104076-8

Note: All part numbers are RoHS compliant.

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Single Row, Right-Angle



Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

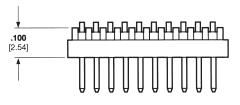
Related Product Data

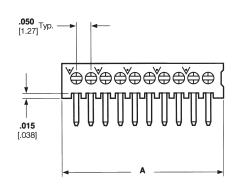
Performance Characteristics — page 63

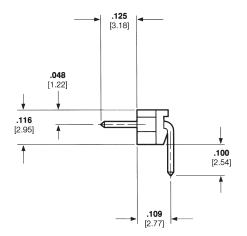
Mateable Connectors — pages 37, 38, 49, & 50

PC Board Hole Layout — page 41

Technical Documents — page 64
Product Specification 108-1093
Application Specification
114-25031





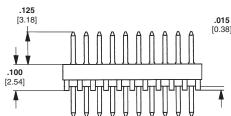


No. of Pos.	Dimension A	Part Numbers
4	.215 [5.46]	5-104186-1
8	.415 [10.54]	5-104186-5
12	.615 [15.62]	5-104186-7
15	.765 [19.43]	5-104186-9
17	.865 [21.97]	6-104186-0
20	1.015 [25.78]	6-104186-1
25	1.265 [32.13]	6-104186-3
30	1.515 [38.48]	6-104186-5
31	1.565 [39.75]	7-104186-0
40	2.015 [51.18]	6-104186-7



Single Row, Vertical





Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

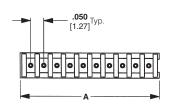


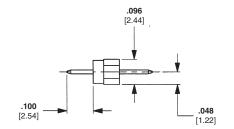
Performance Specifications — page 63

Mateable Connectors — pages 37, 38, 49, & 50

Board-to-Board Spacing — page 63 **PC Board Hole Layout** — page 41

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Product Specification 108-1093
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114-25031





Dimension A	Part Numbers
.215 [5.46]	5-104178-1
.315 [8.00]	5-104178-3
.415 [10.54]	5-104178-5
.515 [13.08]	5-104178-6
1.015 [25.78]	6-104178-1
1.265 [32.13]	6-104178-3
	A .215 [5.46] .315 [8.00] .415 [10.54] .515 [13.08] 1.015 [25.78]



Double Row, Right-Angle



Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

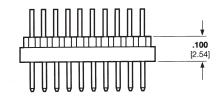
Related Product Data

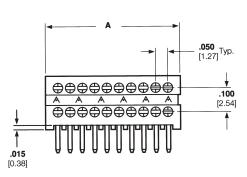
Performance Specifications — page 63

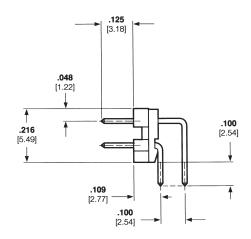
Mateable Connectors — pages 39, 40, 45, 51 & 52

PC Board Hole Layout — page 41

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No. of Pos.	Dimension A	Part Numbers
10	.265 [6.73]	5-104118-3
20	.515 [13.08]	5-104118-7
30	.765 [19.43]	6-104118-0
40	1.015 [25.78]	6-104118-2
50	1.265 [32.13]	5-104118-1
60	1.515 [38.48]	6-104118-4
80	2.015 [51.18]	6-104118-6
100	2.515 [63.88]	6-104118-7



Double Row, Vertical



Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

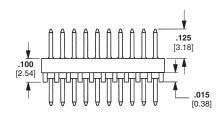
Related Product Data

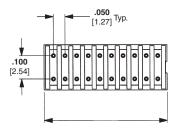
Performance Characteristics page 63

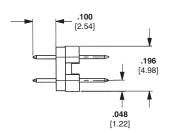
Mateable Connectors — pages 39, 40, 45, 51, & 52

Board-to-Board Spacing — page 63 PC Board Hole Layout — page 42

Technical Documents — page 64 **Product Specification 108-1093 Application Specification** 114-25031







No. of Pos.	Dimension A	Part Numbers
8	.215 [5.46]	5-103916-3
20	.515 [13.08]	5-103916-2
30	.765 [19.43]	5-103916-9
36	.915 [23.24]	6-103916-8
40	1.015 [25.78]	6-103916-1
50	1.265 [32.13]	6-103916-3
60	1.515 [38.48]	6-103916-4
80	2.015 [51.18]	6-103916-6
100	2.515 [63.88]	6-103916-7

Note: All part numbers are RoHS compliant.

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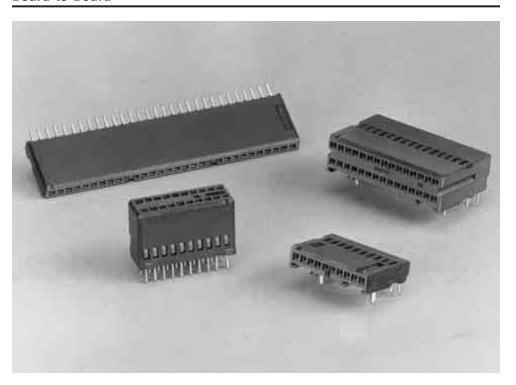
www.tycoelectronics.com



Thru-Hole Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board

Product Facts

- High density; contacts spaced on .050 x .100 [1.27 x 2.54] centers
- Right-angle and vertical styles
- Single row; select sizes 5 thru 50 positions
- Double row; select sizes 10 thru 100 positions
- Contacts are selectively plated with gold
- Stand-offs for removal of solder flux



The AMPMODU System 50 thru-hole receptacles offer a wide variety of high density board-to-board connectors. The .050 [1.27] spacing between each contact provides an extremely dense interconnect package and results in a more efficient use of the printed circuit board space.

AMPMODU System 50 thru-hole receptacles are available in right-angle and vertical configurations and are composed of single and double row versions. The single row versions are available in select sizes of 5 thru 50 positions and double row in positions from 10 thru 100.

Receptacle contacts and mating .015 [0.38] square posts are formed from high conductivity copper alloy and are selectively plated with gold for higher performance and reliability. The receptacle housings are made of black thermoplastic, with a 94V-0 rating to withstand high temperatures of reflow soldering and incorporate stand-offs for free drainage of flux cleaning solutions.



Thru-Hole Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Single Row, Right-Angle With Solder Clips



Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Specifications — page 63

Mateable Connectors — pages 32

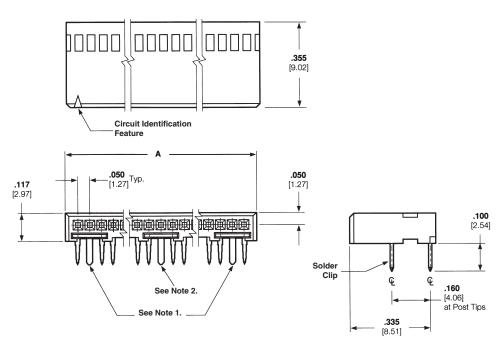
PC Board Hole Layout — page 41

Technical Documents — page 64

Product Specification 108-1093

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114-25031



No. of Pos.	Dimension A	Part Numbers
10	.544 [13.82]	5-104196-2
15	.794 [20.17]	5-104196-4
20	1.044 [26.52]	5-104196-5

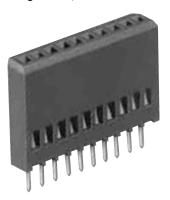
Notes:

- 1. Solder Clips located as shown for 10 through 25 position receptacles.
- 2. Solder Clips located as shown for 5 and 25 position receptacles.



Thru-Hole Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Single Row, Vertical



Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Specifications — page 63

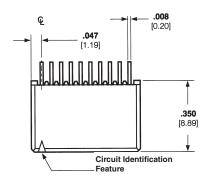
Mateable Connectors — pages 27, 28, 32, & 33

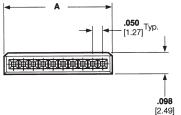
Board-to-Board Spacing — page 63 **PC Board Hole Layout** — page 41

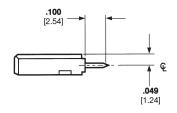
Technical Documents — page 64

Product Specification 108-1093
Application Specification

114-25031







No. of Pos.	Dimension A	Part Numbers
10	.544 [13.82]	5-104192-2
12	.644 [16.35]	5-104192-3
15	.794 [20.17]	5-104192-4
20	1.044 [26.52]	5-104192-5
30	1.544 [39.22]	5-104192-7



Thru-Hole Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Double Row, Right-Angle



.455 [11.56] Circuit Identification

Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

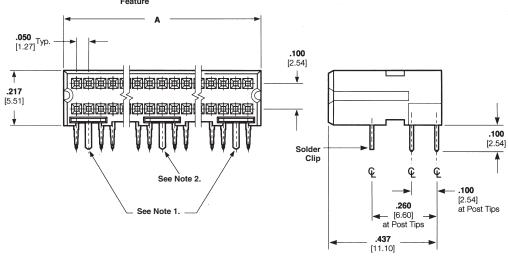
Performance Characteristics — page 63

Mateable Connectors — pages 31, 34 & 35

PC Board Hole Layout — page 41

Technical Documents — page 64 Product Specification 108-1093 Application Specification

114-25031



No. of Pos.	Dimension A	Part Numbers
10	.294 [7.47]	5-103911-1
20	.544 [13.82]	5-103911-2
30	.794 [20.17]	5-103911-7
40	1.044 [26.52]	5-103911-5
50	1.294 [32.87]	5-103911-4
60	1.544 [39.22]	5-103911-3
80	2.044 [51.92]	5-103911-6
100	2.544 [64.62]	5-103911-8

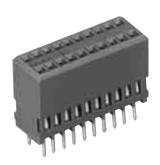
Notes:

- 1. Solder Clips located as shown for 20 through 100 position receptacles.
- 2. Solder Clips located as shown for 10, 60, 80 and 100 position receptacles.



Thru-Hole Receptacles, .050 x .100 [1.27 x 2.54] Centerline, **Board-to-Board** (Continued)

Double Row, Vertical



Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

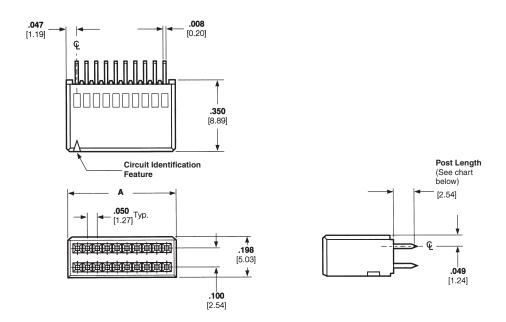
Related Product Data

Performance Specifications page 63

Mateable Connectors — pages 29, 30, 34, 35 & 44

Board-to-Board Spacing — page 63 PC Board Hole Layout — page 41

Technical Documents — page 64 **Product Specification 108-1093 Application Specification** 114-25031



No. of Pos.	Dimension A		umbers ∟ength
Pos.	A	.100 [2.54]	.145 [3.68]
10	.294 [7.47]	5-104078-3	_
20	.544 [13.82]	5-104078-1	_
24	.644 [16.36]	5-104078-9	_
30	.794 [20.17]	5-104078-4	_
34	.894 [22.71]	6-104078-0	_
40	1.044 [26.52]	5-104078-2	_
50	1.294 [32.87]	5-104078-5	5-104744-7
60	1.544 [39.22]	5-104078-6	_
68	1.744 [44.30]	6-104078-3	_
80	2.044 [51.92]	5-104078-7	5-104744-4
100	2.544 [64.62]	5-104078-8	5-104744-5

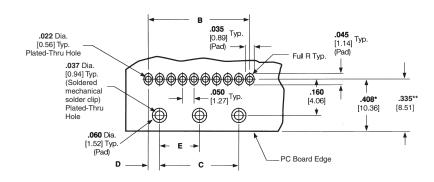


Recommended PC Board Hole Layouts, Thru-Hole Board-to-Board Connectors

Single Row, Right-Angle with Solder Clips

Note: Consult Tyco Electronics for customer drawings detailing toler-

- * This dimension is for Shrouded, Single Row Right-Angle Headers
- ** This dimension is for Single Row Right-Angle Receptacles only.

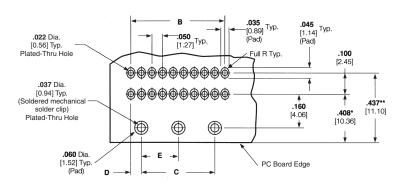


No. of	Dimensions				
Pos.	В	С	D	E	
4	.150 [3.81]	_	.075 [1.91]		
5	.200 [5.08]	_	.100 [2.54]	_	
6	.250 [6.35]	_	.125 [3.18]	_	
8	.350 [8.89]	_	.175 [4.45]	_	
10	.450 [11.43]	.350 [8.89]	.050 [1.27]	_	
12	.550 [13.97]	.450 [11.43]	.050 [1.27]	_	
15	.700 [17.78]	.600 [15.24]	.050 [1.27]	_	
20	.950 [24.13]	.850 [21.59]	.050 [1.27]	_	
22	1.050 [26.67]	.950 [24.13]	.050 [1.27]	_	
25	1.200 [30.48]	1.100 [27.94]	.050 [1.27]	_	
28	1.350 [34.29]	1.250 [31.75]	.050 [1.27]	.625 [15.88]	
30	1.450 [36.83]	1.350 [34.29]	.050 [1.27]	.675 [17.15]	
36	1.750 [44.45]	1.650 [41.91]	.050 [1.27]	.825 [20.96]	
40	1.950 [49.53]	1.850 [46.99]	.050 [1.27]	.925 [23.50]	
45	2.200 [55.88]	2.100 [53.34]	.050 [1.27]	1.050 [26.67]	
50	2.450 [62.23]	2.350 [59.69]	.050 [1.27]	1.175 [29.85]	

Double Row, Right-Angle with Solder Clips

Note: Consult Tyco Electronics for customer drawings detailing tolerances.

- * This dimension is for Shrouded, Double Row Right-Angle Headers only.
- ** This dimension is for Double Row Right-Angle Receptacles only.



No. of		Dimens	sions	
Pos.	В	С	D	E
10	.200 [5.08]	_	.100 [2.54]	_
20	.450 [11.43]	.350 [8.89]	.050 [1.27]	_
24	.550 [13.97]	.450 [11.43]	.050 [1.27]	_
26	.600 [15.24]	.500 [12.70]	.050 [1.27]	_
30	.700 [17.78]	.600 [15.24]	.050 [1.27]	_
34	.800 [20.32]	.700 [17.78]	.050 [1.27]	_
40	.950 [24.13]	.850 [21.59]	.050 [1.27]	_
50	1.200 [30.48]	1.100 [27.94]	.050 [1.27]	_
60	1.450 [36.83]	1.350 [34.29]	.050 [1.27]	.675 [17.15]
68	1.650 [41.91]	1.550 [39.37]	.050 [1.27]	.775 [19.69]
72	1.750 [44.45]	1.650 [41.91]	.050 [1.27]	.825 [20.96]
80	1.950 [49.53]	1.850 [46.99]	.050 [1.27]	.925 [23.50]
100	2.450 [62.23]	2.350 [59.69]	.050 [1.27]	1.175 [29.85]

Catalog 1307819 Revised 8-08

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

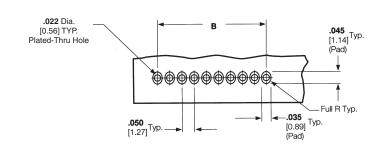
South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208



Recommended PC Board Hole Layouts, Thru-Hole Board-to-Board Connectors (Continued)

Single Row Without Solder Clips

Note: Consult Tyco Electronics for customer drawings detailing tolerances

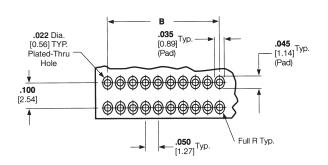


No. of Pos.	Dimension B
4	.150 [3.81]
5	.200 [5.08]
6	.250 [6.35]
8	.350 [8.89]
10	.450 [11.43]
12	.550 [13.97]
13	.600 [15.24]
15	.700 [17.78]

No. of Pos.	Dimension B
17	.800 [20.32]
20	.950 [24.13]
22	1.050 [26.67]
25	1.200 [30.48]
30	1.450 [36.83]
31	1.500 [38.10]
36	1.750 [44.45]
40	1.950 [49.53]
50	2.450 [62.23]

Double Row Without Solder Clips

Note: Consult Tyco Electronics for customer drawings detailing tolerances.



No. of	Dimension
Pos.	В
8	.150 [3.81]
10	.200 [5.08]
12	.250 [6.35]
14	.300 [7.62]
16	.350 [8.89]
20	.450 [11.43]
24	.550 [13.97]
26	.600 [15.24]
30	.700 [17.78]
34	.800 [20.32]

No. of Pos.	Dimension B
36	.850 [21.59]
40	.950 [24.13]
44	1.050 [26.67]
50	1.200 [30.48]
60	1.450 [36.83]
68	1.650 [41.91]
72	1.750 [44.45]
80	1.950 [49.53]
100	2.450 [62.23]

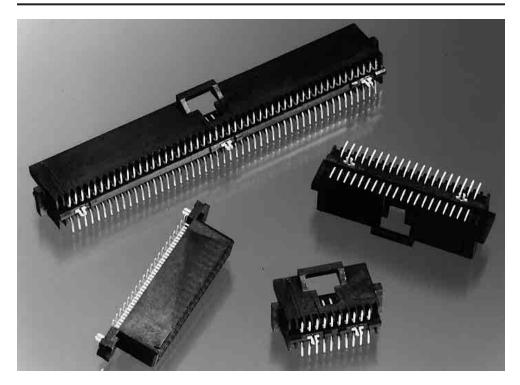
www.tycoelectronics.com



Surface-Mount Connectors, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board

Product Facts

- Surface-mount option for parallel board-to-board applications; completely intermateable with AMPMODU System 50 thru-hole board-to-board and cable-to-board systems
- Double row, vertical, shrouded header and receptacle assemblies
- Available in select sizes from 10 through 100 positions
- High Density; contacts spaced on .050 x .100 [1.27 x 2.54] centers; compact footprint
- Compatible with standard surface-mount processes
- Stand-offs for free drainage of flux cleaning solutions; visible solder joints for easy inspection
- Simple, low insertion-force holddown for process retention and long-term strain relief for solder joints
- Available in tape and reel packaging (with vacuum covers) for automatic placement.



The high-density surfacemount connector is another mounting option in the AMPMODU System 50 connector family.

This surface-mount system is fully intermateable with the AMPMODU System 50 thru-hole and cable-to-board connectors.

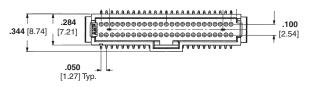
Additionally, the design of the mating interface has not been changed, maintaining the same high reliability as the thru-hole product. The surface-mount system includes double row, vertical, shrouded header and receptacle assemblies in select sizes from 10 through 100 positions. It meets the tight dimensional requirements of surface-mount technology. The simple, low insertion-force holddown provides both processing retention and long-term strain relief for the solder joints in the headers and receptacles.

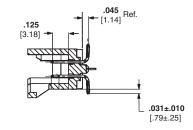


Surface-Mount Headers, .050 x .100 [1.27 x 2.54] Centerline, **Board-to-Board**

Double Row, Vertical







Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder tail, with entire contact underplated .000050 [0.00127] nickel

Holddown — Copper alloy, plated .000150 [0.00381] tin over .000050 [0.00127] nickel

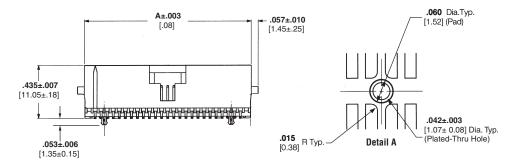
Related Product Data

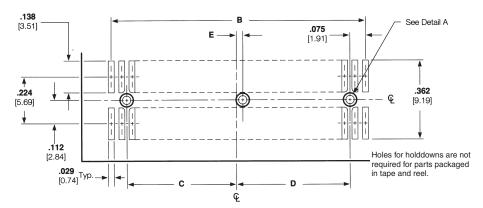
Performance Characteristics page 63

Mateable Connectors — pages 40, 45, 51, 52, & 56

Board-to-Board Spacing — page 63

Technical Documents — page 64 **Product Specification 108-1093 Application Specification** 114-25035





Recommended PC Board Layout

No. of				Part N	lumbers		
Pos.	Α	В	Dimensions C	D	E	Pkg in Tube	Pkg in Tape & Reel*
10	.380 [9.65]	.200 [5.08]	_	.025 [0.64]	_	5-104549-1	5-147377-1
12	.430 [10.92]	.250 [6.35]	_	_	_	6-104549-1	_
20	.630 [16.00]	.450 [11.43]	.150 [3.81]	.150 [3.81]	_	5-104549-2	5-147377-2
24	.730 [18.54]	.550 [13.97]	.200 [5.08]	.200 [5.08]	_	5-104549-3	5-147377-9
30	.880 [22.35]	.700 [17.78]	.275 [6.99]	.275 [6.99]	_	5-104549-5	5-147377-3
40	1.130 [28.70]	.950 [24.13]	.400 [10.16]	.400 [10.16]	_	5-104549-6	5-147377-4
50	1.380 [35.05]	1.200 [30.48]	.525 [13.34]	.525 [13.34]	.025 [0.64]	5-104549-7	5-147377-5
60	1.630 [41.40]	1.450 [36.83]	.650 [16.51]	.650 [16.51]	.000	5-104549-8	5-147377-6
80	2.130 [54.10]	1.950 [49.53]	.900 [22.86]	.900 [22.86]	.000	5-104549-9	5-147377-7
100	2.630 [66.80]	2.450 [62.23]	1.150 [29.21]	1.150 [29.21]	.000	6-104549-0	5-147377-8

^{*}Parts packaged in tape and reel are without hold downs and include a vacuum pick and place cover

Note: All part numbers are RoHS compliant.

Downloaded from Arrow.com.



Surface-Mount Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board

Double Row, Vertical



Material and Finish

Housing — Glass-filled thermpolastic, black, 94V-0 rated

Contacts — Phosphor bronze; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder tail, with entire contact underplated .000050 [0.00127] nickel

Holddown — Copper alloy; duplex plated .000150 [0.00381] tin over .000050 [0.00127] nickel

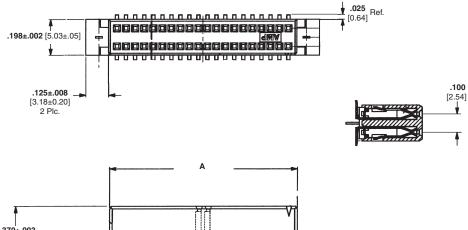
Related Product Data

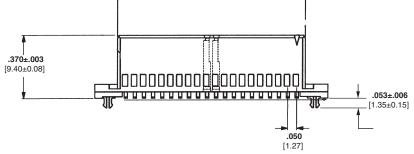
Performance Characteristics — page 63

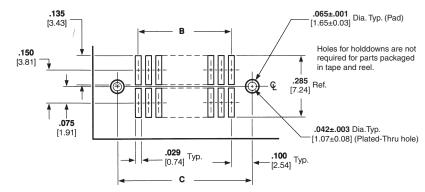
Mateable Connectors — pages 29, 30, 34, 35 & 44

Board-to-Board Spacing — page 63

Technical Documents — page 64
Product Specification 108-1093
Application Specification
114-25035







Recommended PC Board Layout

No. of		Dimensions			Numbers
Pos.	Α	В	С	Pkg in Tube	Pkg in Tape & Reel*
10	.294 [7.47]	.200 [5.08]	.400 [10.16]	5-104550-1	5-147378-1
20	.544 [13.82]	.450 [11.43]	.650 [16.51]	5-104550-2	5-147378-2
24	.644 [16.36]	.550 [13.97]	.750 [19.05]	5-104550-3	5-147378-9
30	.794 [20.17]	.700 [17.78]	.900 [22.86]	5-104550-4	5-147378-3
40	1.044 [26.52]	.950 [24.13]	1.150 [29.21]	5-104550-5	5-147378-4
50	1.294 [32.87]	1.200 [30.48]	1.400 [35.56]	5-104550-6	5-147378-5
60	1.544 [39.22]	1.450 [36.83]	1.650 [41.91]	5-104550-7	5-147378-6
80	2.044 [51.92]	1.950 [49.53]	2.150 [54.61]	5-104550-8	5-147378-7
100	2.544 [64.62]	2.450 [62.23]	2.650 [67.31]	5-104550-9	5-147378-8

^{*}Parts packaged in tape and reel are without hold downs and include a vacuum pick and place cover

Note: All part numbers are RoHS compliant.

Catalog 1307819 Revised 8-08

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

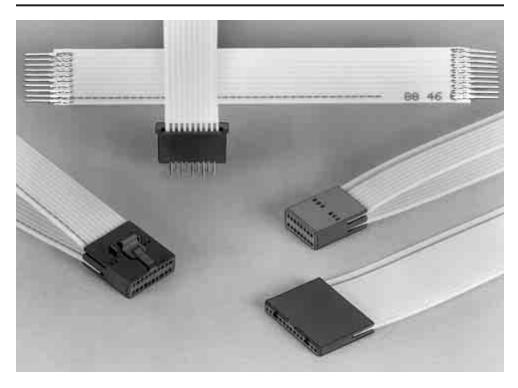
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208



Cable-to-Board Connectors, .050 x .100 [1.27 x 2.54] Centerline FFC Cable

Product Facts

- Signal application only,
 1.5 amperes maximum single circuit
- Single or double row connectors
- Terminates flexible flat conductor cable and flexible etched circuitry
- Shielded cable provides for customizing
- Center latch housing providing positive latching



The cable-to-board .050 [1.27] center FFC receptacle connectors are part of the AMPMODU System 50 family for terminating flexible flat conductor cable and flexible etched circuitry.

The FFC receptacle uses a dual beam contact with 30 microinches of gold plating. The FFC receptacle connectors have an integral latch for positive locking to shrouded mating headers.

Flexible flat conductor cable is a planar parallel conductor cable. It can be used as a one-to-one connector or as a complex harness, allowing split-outs and special routing. The cable is comprised of .026 [0.66] wide x .003 [0.08] thick conductors made of copper per QQ-C-502 and insulated with a flame retardant polyester film.

The FFC contacts are available in receptacle and

solder tab. Receptacle contacts are made of phosphor bronze with a finish of plated gold duplex, while the solder tab contacts are finished in a bright tin-lead overall.

The complete product line provides solder tabs for board mounting at low cost and custom shielding of the cable.

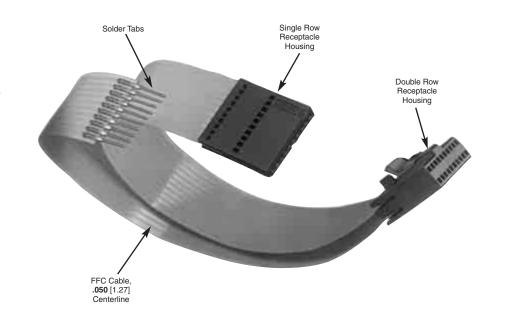


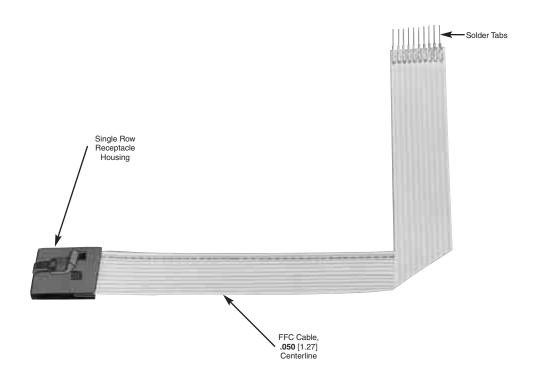
Cable-to-Board Connectors, .050 x .100 [1.27 x 2.54] Centerline FFC Cable] (Continued)

Custom Designed Cable Assemblies

Tyco Electronics can supply customized flexible flat conductor cable assemblies using the components shown on pages 48 thru 54. Typical examples of these cable assemblies are shown to the right.

And, to meet the internal shielding requirements of today's complex electronic equipment, custom designed shielded FFC cable assemblies can be made to your specific specifications.





Receptacle



FFC Contacts, .050 x .100 [1.27 x 2.54] Centerline

Receptacle Strip



Solder Tab Strip

Material and Finish

Phosphor bronze; plated gold duplex or bright tin-lead overall (See chart.)

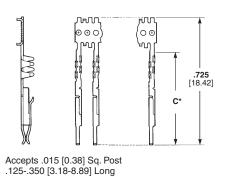
Related Product Data

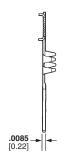
Performance Characteristics page 63

Housings — pages 49-52

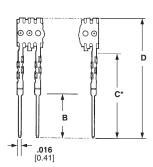
Application Tooling — page 60-62

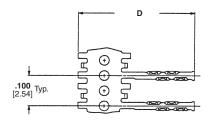
Technical Documents — page 64 **Product Specification** 108-16022 **Application Specification** 114-16008

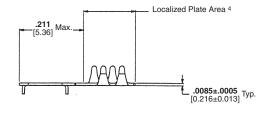




Solder Tab







Contacts						Application Tooling Part Numbers	
Type	Config.	Part No./		Dimensions	<u> </u>		Machine With
Турс	Comig.	Finish	В	C*	D	Machine	Programmer
Receptacle	Strip	1-487547-11	_	.520 [13.21]	.725 [18.42]		
	Strip	487923-42	.245 [6.22]	.480 [12.19]	.685 [17.40]		
Solder Tab	Strip	487923-53	.245 [6.22]	.480 [12.19]	.685 [17.40]	224910-4 (120 V)	318619-4 (120 V)
	Strip	487940-4 ²	.110 [2.79]	.345 [8.76]	.550 [13.97]	224910-6 (240 V)	318619-6 (240 V)
Contact Splice	Strip	487941-44	_	_	.385 [9.78]		
Receptacle	Strip	1-487547-25	_	.520 [13.21]	.725 [18.42]		

Duplex plated .000030 [0.00076] gold on mating area, .000100 [0.00254] min. bright tin in crimp area, with entire contact underplated .000050 [0.00127] min. nickel.

2Plated .000100 [0.00254] min. tin over .000050 [0.00127] min. nickel.

*After cut-off from carrier strip.

Note: All part numbers are RoHS compliant.

Catalog 1307819 Revised 8-08

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

³Duplex plated .000015 [0.00038] gold on solder tab end, .000100 [0.00254] min. bright tin in crimp area, with entire contact underplated .000050 [0.00127] min. nickel.

4Plated .000150 [3.81µm] min. bright tin over .000050 [1.27µm] min. nickel.

⁵Duplex Plated .000150 [0.00038] gold on mating area, .000100 [0.00254] min bright tin in crimp area, with entire contact underplated .000050 [0.00127] min. nickel.

Plain Style Housings



Single Row Receptacle Housings, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board

......

Plain Style Housings



Latch Style Housings

Material and Finish

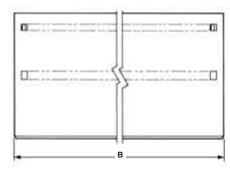
Housing — Black thermoplastic, flame retardant, 94V-0 rated

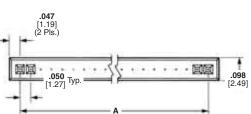
Related Product Data

Performance Characteristics—page 63

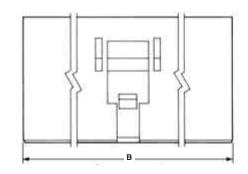
Receptacle Contacts — page 48 **Mateable Headers** — pages 27, 28, 32 & 33

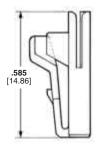
Technical Documents — page 64
Product Specification 108-16022
Application Specification
114-16008

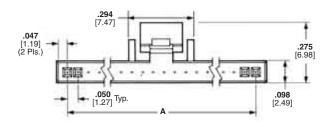




Latch Style Housings





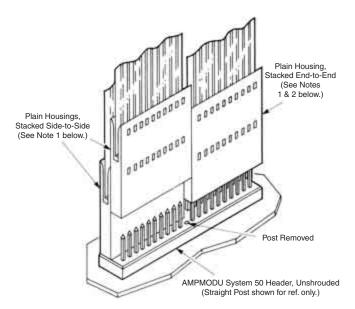


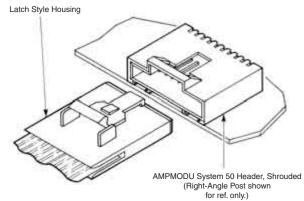


Single Row Receptacle Housings, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board (Continued)

No. of	Dimer	sions	Part	Numbers
Pos.	Α	В	Plain Receptacle Housing	Latch Style Receptacle Housing
4	.150 [3.18]	.244 [6.20]	487544-1	487545-1
5	.200 [5.08]	. 294 [7.47]	487544-2	487545-2
6	.250 [6.35]	.344 [8.74]	487544-3	487545-3
7	.300 [7.62]	.394 [10.01]	487544-4	487545-4
8	.350 [8.89]	.444 [11.28]	487544-5	487545-5
10	.450 [11.43]	.544 [13.82]	487544-7	487545-7
12	.550 [13.97]	.644 [16.36]	487544-9	487545-9
13	.600 [15.24]	.694 [17.63]	_	1-487545-0
15	.700 [17.78]	.794 [20.17]	1-487544-2	1-487545-2
16	.750 [19.05]	.844 [21.44]	1-487544-3	_
17	.800 [20.32]	.894 [22.71]	1-487544-4	1-487545-4
20	.950 [24.13]	1.044 [26.52]	1-487544-7	1-487545-7
22	1.050 [26.67]	1.144 [29.06]	1-487544-9	1-487545-9
25	1.200 [30.48]	1.294 [32.87]	2-487544-2	2-487545-2
26	1.250 [31.75]	1.343 [34.11]	_	2-487545-3
28	1.350 [34.29]	1.443 [36.65]	_	2-487545-5
30	1.450 [36.83]	1.544 [39.22]	_	2-487545-7
36	1.750 [44.45]	1.844 [46.84]	3-487544-3	3-487545-3
40	1.950 [49.53]	2.044 [51.92]	_	3-487545-7
45	2.200 [55.88]	2.294 [58.27]	_	4-487545-2
50	2.450 [62.23]	2.544 [64.62]	4-487544-7	4-487545-7

Note: Other sizes of receptacle housings (plain and latch style) can be made available, consult Tyco Electronics.





Notes: 1. Plain housings are side-to-side stackable on either straight or right-angle posted, unshrouded AMPMODU System 50 headers.

2. For end-to-end stacking, the posts located between the adjoining housings must be removed to provide housing end clearance.

Typical Cable-to-Board Application of Plain Receptacle Housing

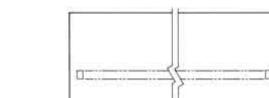
Typical Cable-to-Board Application of Latch Style Receptacle Housing

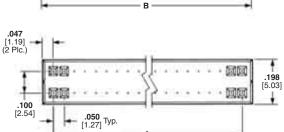
Plain Style Housings



Double Row Receptacle Housings, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board

Plain Style Housings





.585 [14.86] Plain

Latch Style Housings

Material

Black thermoplastic, flame retardant, 94V-0 rated

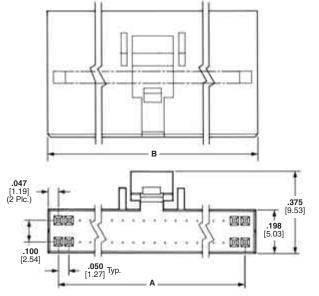
Related Product Data

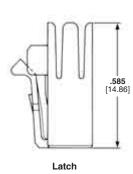
Performance Characteristics page 63

Receptacle Contacts — page 48 Mateable Headers — pages 29, 30, 34, 35, & 44

Technical Documents — page 64 **Product Specification** 108-16022 **Application Specification** 114-16008

Latch Style Housings





51

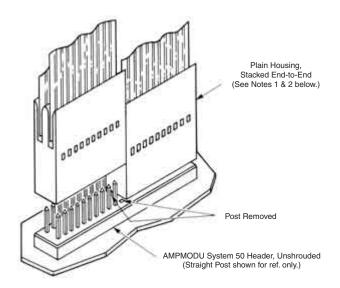
Catalog 1307819 Revised 8-08



Double Row Receptacle Housings, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board (Continued)

No. of	Dime	nsions	Plain Housing	Latch Style Housing
Pos.	Α	В	Part Numbers	Part Numbers
8	.150 [3.81]	.247 [6.27]	487938-8	487937-8
10	.200 [5.08]	.297 [7.54]	1-487938-0	1-487937-0
12	.250 [6.35]	.374 [8.81]	1-487938-2	1-487937-2
14	.300 [7.62]	.397 [10.08]	1-487938-4	1-487937-4
16	.350 [.889]	.447 [11.35]	1-487938-6	1-487937-6
20	.450 [11.43]	.547 [13.89]	2-487938-0	2-487937-0
24	.550 [13.97]	.647 [16.43]	2-487938-4	2-487937-4
26	.600 [15.24]	.697 [17.7]	2-487938-6	2-487937-6
30	.700 [17.78]	.797 [20.24]	3-487938-0	3-487937-0
34	.800 [20.32]	.897 [22.78]	3-487938-4	3-487937-4
40	.950 [24.13]	1.047 [26.59]	4-487938-0	4-487937-0
44	1.050 [26.67]	1.147 [29.13]	4-487938-4	4-487937-4
50	1.200 [30.48]	1.297 [39.94]	5-487938-0	5-487937-0
60	1.450 [36.83]	1.547 [39.29]	_	6-487937-0
72	1.750 [44.45]	1.847 [46.91]	7-487938-2	7-487937-2
80	1.950 [49.53]	2.047 [51.99]	8-487938-0	8-487937-0
100	2.450 [62.23]	2.547 [64.69]	487938-1	487937-1

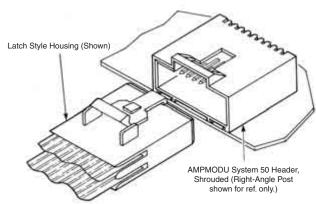
Note: Other sizes of receptacle housings, up to 120 positions, can be made available, consult Tyco Electronics.



Notes: 1. Plain housings are end-to-end stackable on either straight or right-angle posted, unshrouded AMPMODU System 50 headers.

2. For end-to-end stacking, the two posts located between the adjoining housings must be removed to provide housing end clearance.

Typical Cable-to-Board Application of Plain Receptacle Housing



Typical Cable-to-Board Application of Latch Style Receptacle Housing



ZIF-Line Connectors, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board

Vertical Cable Entry



Material and Finish

Housing and Cover — Black thermoplastic, flame retardant, 94V-0 rated

Contacts — Phosphor bronze, plated .000150 [0.00381] min. bright tin over .000050 [0.00127] min. nickel on entire contact

Performance Characteristic Contact Current Rating—

1 amperet

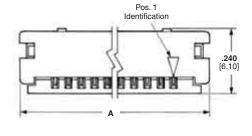
†1 ampere rating is for single circuit. Multiple circuits, ambient temperature and conductor size affect current carrying capacity.

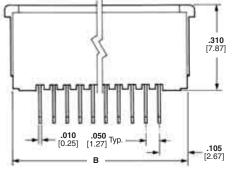
Related Product Data

FFC Cable (with Tin-Plated Prepared Ends) —

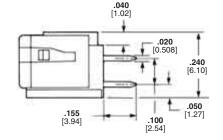
Consult Tyco Electronics.

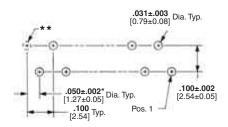
Technical Documents — page 64
Product Specification 108-16025
Application Specification
114-16014





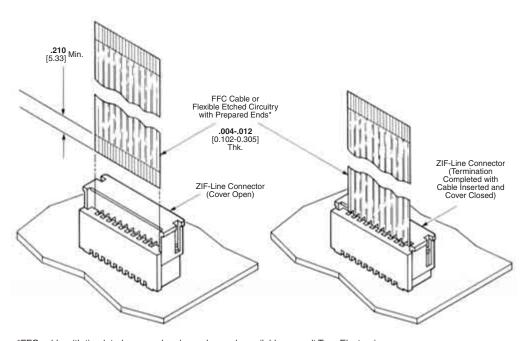
Note: ZIF-Line connector illustrated above with cover in closed position.





Recommended Mounting Hole Pattern

- *±.002 [±0.05] tolerance not to accumulate within one mounting hole pattern.
- **This mounting hole required for even-numbered connector sizes only.



*FFC cable with tin-plated prepared ends can be made available, consult Tyco Electronics.

Note: Special preparation of cable is required, refer to Tyco Electronics Application Specification No. 114-16014.

Typical Flexible Flat Conductor Cable-to-Board Application



ZIF-Line Connectors, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board (Continued)

No. of	Dimer	nsions	Connector
Pos.	Α	В	Numbers
5	.470 [11.94]	.410 [10.41]	5-487576-0
6	.520 [13.21]	.460 [11.68]	5-487576-1
7	.570 [14.48]	.510 [12.95]	4-487576-8
8	.620 [15.75]	.560 [14.22]	4-487576-9
9	.670 [17.02]	.610 [15.49]	487576-1
10	.720 [18.29]	.660 [16.76]	487576-2
11	.770 [19.56]	.710 [18.03]	487576-3
12	.820 [20.83]	.760 [19.30]	487576-4
13	.870 [22.10]	.810 [20.57]	487576-5
14	.920 [23.37]	.860 [21.84]	487576-6
15	.970 [24.64]	.910 [23.11]	487576-7
16	1.020 [25.91]	.960 [24.38]	487576-8
17	1.070 [27.18]	1.010 [25.65]	487576-9
18	1.120 [28.45]	1.060 [26.92]	1-487576-0
19	1.170 [29.72]	1.110 [28.19]	1-487576-1
20	1.220 [30.99]	1.160 [29.46]	1-487576-2
21	1.270 [32.26]	1.210 [30.73]	1-487576-3
22	1.320 [33.53]	1.260 [32.00]	1-487576-4
23	1.370 [34.80]	1.310 [33.27]	1-487576-5
24	1.420 [36.07]	1.360 [34.54]	1-487576-6
25	1.470 [37.34]	1.410 [35.81]	1-487576-7
26	1.520 [38.61]	1.460 [37.08]	1-487576-8
27	1.570 [39.88]	1.510 [38.35]	1-487576-9
28	1.620 [41.15]	1.560 [39.62]	2-487576-0
29	1.670 [42.42]	1.610 [40.89]	2-487576-1
30	1.720 [43.69]	1.660 [42.16]	2-487576-2

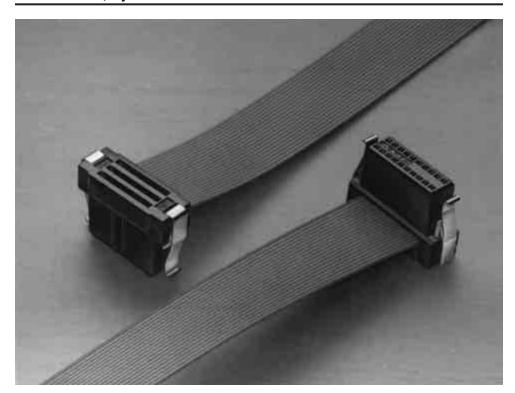
No. of	Dimer	Dimensions					
Pos.	Α	В	Part Numbers				
31	1.770 [44.96]	1.710 [43.43]	2-487576-3				
32	1.820 [46.23]	1.760 [44.70]	2-487576-4				
33	1.870 [47.50]	1.810 [45.97]	2-487576-5				
34	1.920 [48.77]	1.860 [47.24]	2-487576-6				
35	1.970 [50.04]	1.910 [48.51]	2-487576-7				
36	2.020 [51.31]	1.960 [49.78]	2-487576-8				
37	2.070 [52.58]	2.010 [51.05]	2-487576-9				
38	2.120 [53.85]	2.060 [52.32]	3-487576-0				
39	2.170 [55.12]	2.110 [53.59]	3-487576-1				
40	2.220 [56.39]	2.160 [54.86]	3-487576-2				
41	2.270 [57.66]	2.210 [56.13]	3-487576-3				
42	2.320 [58.93]	2.260 [57.40]	3-487576-4				
43	2.370 [60.20]	2.310 [58.67]	3-487576-5				
44	2.420 [61.47]	2.360 [59.94]	3-487576-6				
45	2.470 [62.74]	2.410 [61.21]	3-487576-7				
46	2.520 [64.01]	2.460 [62.48]	3-487576-8				
47	2.570 [65.28]	2.510 [63.75]	3-487576-9				
48	2.620 [66.55]	2.560 [65.02]	4-487576-0				
49	2.670 [67.82]	2.610 [66.29]	4-487576-1				
50	2.720 [69.09]	2.660 [67.56]	4-487576-2				
51	2.770 [70.36]	2.710 [68.83]	4-487576-3				
52	2.820 [71.63]	2.760 [70.10]	4-487576-4				
53	2.870 [72.90]	2.810 [71.37]	4-487576-5				
54	2.920 [74.17]	2.860 [72.64]	4-487576-6				
55	2.970 [75.44]	2.910 [73.91]	4-487576-7				



Cable-to-Board Connectors, .050 x .100 [1.27 x 2.54] Centerline, Ribbon Cable, System 50

Product Facts

- Preassembled housing and cover
- One step termination
- End and daisy chain termination
- Positive end latching of connector to shrouded headers
- Terminates 30 AWG
 [0.05 mm²] solid or
 stranded and
 32 AWG [0.03 mm²]*
 stranded .025 [0.64]
 centerline ribbon cable
 with PVC insulation
- 0.5 ampere current rating (limited by cable)



The AMP-LATCH System 50 Ribbon Cable connector is a receptacle connector that will terminate ribbon cable on .025 [0.64] centerlines. It is available in select sizes from 10 to 100 positions and will accommodate 30 AWG [0.05 mm²] solid or stranded and 32 AWG [0.03 mm²]

stranded conductors, with PVC cable insulation.

The housing and cover (black) have a 94V-0 rating. A copper alloy single mating beam contact provides the interconnect between the conductor and the .015 [0.38] square posts on the .050 x .100 [1.27 x 2.54] grid. The

contacts are plated with 30 gold duplex plating. The latching feature is located on the receptacle, not the header, and saves board space and eliminates future problems of "latch height compatibility."

Tyco Electronics

Double Row Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board, Ribbon Cable, System 50



Material and Finish

Housing — Black thermoplastic, 94V-0 rated

Latches — Stainless steel

Contacts — Copper alloy, plated gold over nickel with tin in termination area

Related Product Data

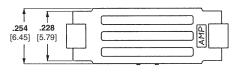
Performance Characteristics page 63

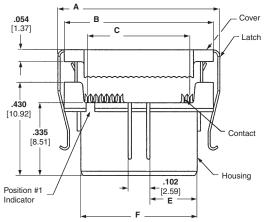
Mateable Headers — pages 29, 30, 34, 35 & 44

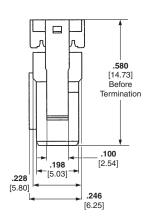
Application Tooling — page 60-62 Mates with Posts -

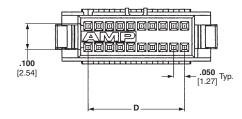
.015 [0.38] square, .125 [3.18] long, on.050 x .100 [1.27 x 2.54] grid

Technical Documents — page 64 **Product Specification 108-1109 Application Specification** 114-25029









No. of	Dimensions						
Pos.	Α	В	С	D	E	F	Numbers
10	.510 [12.95]	.445 [11.30]	.225 [5.72]	.200 [5.08]	.096 [2.44]	.294 [7.47]	2-111196-5
14	.610 [15.49]	.545 [13.84]	.325 [8.26]	.300 [7.62]	.146 [3.71]	.394 [10.01]	2-111196-6
16	.660 [16.76]	.595 [15.11]	.375 [9.52]	.350 [8.89]	.171 [4.34]	.444 [11.28]	2-111196-7
20	.760 [19.30]	.695 [17.65]	.475 [12.07]	.450 [11.43]	.221 [5.61]	.544 [13.82]	1-111196-8
24	.860 [20.32]	.795 [20.19]	.575 [14.61]	.550 [13.97]	.271 [6.88]	.644 [16.36]	2-111196-8
26	.910 [23.11]	.845 [21.46]	.625 [15.88]	.600 [15.24]	.296 [7.52]	.694 [17.63]	2-111196-9
30	1.010 [25.65]	.945 [24.00]	.725 [18.42]	.700 [17.78]	.346 [8.79]	.794 [20.17]	1-111196-9
34	1.110 [28.19]	1.045 [26.54]	.825 [20.96]	.800 [20.32]	.396 [10.06]	.894 [22.71]	3-111196-0
40	1.260 [32.00]	1.195 [30.35]	.975 [34.54]	.950 [24.13]	.471 [11.96]	1.044 [26.52]	2-111196-0
44	1.360 [34.54]	1.295 [32.89]	1.075 [27.31]	1.050 [26.67]	.521 [13.23]	1.144 [29.06]	3-111196-1
50	1.510 [38.35]	1.445 [36.70]	1.225 [31.12]	1.200 [30.48]	.596 [15.14]	1.294 [32.87]	2-111196-1
60	1.760 [44.70]	1.695 [43.05]	1.475 [37.47]	1.450 [36.83]	.721 [18.31]	1.544 [39.22]	2-111196-2
64	1.860 [47.24]	1.795 [45.59]	1.575 [40.00]	1.550 [39.37]	.771 [19.58]	1.644 [41.76]	3-111196-2
68	1.960 [49.78]	1.895 [48.13]	1.675 [42.55]	1.650 [41.91]	.821 [20.85]	1.744 [44.30]	3-111196-4
72	2.060 [52.32]	1.995 [50.67]	1.775 [45.08]	1.750 [44.45]	.871 [22.12]	1.844 [46.84]	2-111196-3
80	2.260 [57.40]	2.195 [55.75]	1.975 [50.17]	1.950 [49.53]	.971 [24.66]	2.044 [51.92]	3-111196-3
100	2.760 [70.10]	2.695 [68.45]	2.475 [62.87]	2.450 [62.23]	1.221 [31.01]	2.544 [64.62]	2-111196-4



Paddleboard Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board, Ribbon Cable, System 50



Material and Finish

Housing — Black LCP thermoplastic, 94V-0 rated

Cover — Black polyester, 94V-0 rated **Contacts** — Copper alloy, plated .000100-.000200 [0.00245-0.00508] bright tin over .000050-.000100 [0.00127-0.00254] nickel

Related Product Data

114-25040

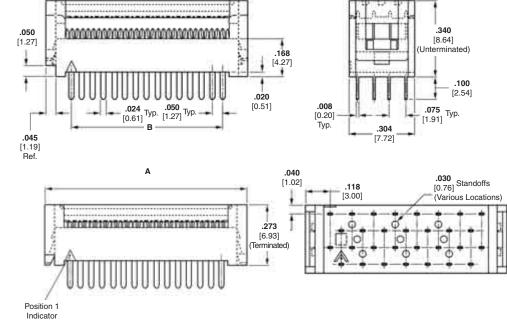
Performance Characteristics — page 63

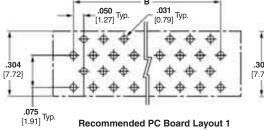
Application Tooling — pages 60-62

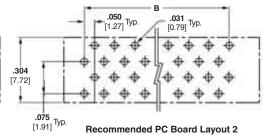
Technical Documents — page 64

Product Specification 108-1109

Application Specification







	No. of	PCB Hole	Dimen	sions	Part Numbers	
	Pos.	Layout	Α	В	Part Numbers	
	10	1	.436 [11.07]	.200 [5.08]	5111595-1	
	14	1	.536 [13.61]	.300 [7.62]	5111595-2	
	16	2	.586 [14.88]	.350 [8.89]	5111595-3	
	20	2	.686 [17.42]	.450 [11.43]	5111595-4	
	24	2	.786 [19.96]	.550 [13.97]	5111595-5	
ľ	26	1	.836 [21.23]	.600 [15.24]	5111595-6	
	28	2	.886 [22.50]	.650 [16.51]	2-5111595-0	
	30	1	.936 [23.77]	.700 [17.78]	5111595-7	
	34	1	1.036 [26.31]	.800 [20.32]	5111595-8	
	40	2	1.186 [30.12]	.950 [24.13]	5111595-9	

No. of	PCB Hole	Dimen	Part Numbers	
Pos.	Layout	Α	В	rait Nullibers
44	2	1.286 [32.66]	1.050 [26.67]	1-5111595-0
46	1	1.336 [33.93]	1.100 [27.94]	1-5111595-7
50	1	1.436 [36.47]	1.200 [30.48]	1-5111595-1
60	2	1.686 [42.82]	1.450 [36.83]	1-5111595-2
64	2	1.786 [45.36]	1.550 [39.37]	1-5111595-3
68	2	1.886 [47.90]	1.650 [41.91]	1-5111595-9
72	2	1.986 [50.44]	1.750 [44.45]	1-5111595-4
80	2	2.186 [55.52]	1.950 [49.53]	1-5111595-5
100	2	2.686 [68.22]	2.450 [62.23]	1-5111595-6

Note: All part numbers are RoHS compliant.

Catalog 1307819 Revised 8-08



Flat Ribbon Cable, PVC Insulation

30 AWG [0.05 mm²], Solid Bare Copper

Product Specifications

Voltage —150 Volts

Impedance — 80 Ohms Nominal (GND,SIG, GND, applies to 30AWG Solid Bare Copper)

Capacitance — 19.2 pf/ft at 1 MHz nom.

Propagation Delay — 1.51 ns/ft nom.

Crosstalk —

10 ft sample 5 ns rise time:

Near End — 4.0% max.

Far End — 6.0% max.

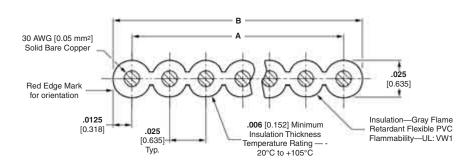
UL Listing — STYLE 2678

Recognized under the Component Program of Underwriters Laboratories Inc., File No. E53793



Certified by Canadian Standards Association, (CSA File No. LL83498)





No. of	Dime	nsions		umbers Per Reel*
Conductors	Α	В		
			100 ft. [30.48 m]	500 ft. [152.4 m]
16	.375 [9.52]	.400 [10.16]	5-57013-1	5-57013-2
20	.475 [12.07]	.500 [12.70]	1-57013-3	57013-1
24	.575 [14.61]	.600 [15.24]	1-57013-4	57013-8
26	.625 [15.88]	.650 [16.51]	2-57013-5	2-57013-6
28	.675 [17.14]	.700 [17.78]	4-57013-6	4-57013-7
30	.725 [18.42]	.750 [19.05]	1-57013-5	57013-6
34	.825 [20.95]	.850 [21.59]	4-57013-9	5-57013-0
36	.875 [22.23]	.900 [22.86]	1-57013-6	57013-7
40	.975 [24.77]	1.000 [25.40]	1-57013-7	57013-2
44	1.075 [27.31]	1.100 [27.94]	1-57013-8	57013-9
50	1.225 [27.94]	1.250 [31.75]	1-57013-9	1-57013-0
60	1.475 [37.47]	1.500 [38.10]	2-57013-0	57013-3
68	1.675 [42.55]	1.700 [43.18]	2-57013-1	1-57013-1
72	1.775 [45.09]	1.800 [45.72]	2-57013-2	1-57013-2
80	1.975 [50.17]	2.000 [50.80]	2-57013-3	57013-4
100	2.475 [62.87]	2.500 [63.50]	2-57013-4	57013-5

^{*}Reel may contain separate lengths, 20 ft. [6.1 m] min. per length.

Electrical Characteristics of .025 [0.64] Centerline IDC Ribbon Cable

Base Part No.	Insulation	AWG	Voltage	Impedance Single Ended G-S-G	Capacitance Nominal G-S-G	Inductance Nominal	Nominal Prop. Delay	NEXT 10 Ft 5ns Rise Time	FEXT 10 Ft 5ns Rise Time
57013	PVC	30 Solid	150 Vac	80 Ohms Nom	19.2 pf/ft	.160 mh/ft	1.51 ns/ft	4.0% Max	6.0% Max
219054, 219137	TPE	30 Solid	150 Vac	90+/- 6 Ohms	15.3 pf/ft	.124 mh/ft	1.382 ns/ft	2.39% Nom	2.99% Nom
57119, 57139, 57145	FEP	30 Solid	300 Vac	93 Ohms Nom	13.6 pf/ft	.120 mn/ft	1.34 ns/ft	2.6% Nom	2.8% Nom
57131	PVC	30 Stranded	150 VAC	66 Ohms Nom	23.0 pf/ft	.100 mh/ft	1.55 ns/ft	2.8% Max	4.5% Max
219055	TPE	30 Stranded	150 VAC	78 Ohms Nom	19.4 pf/ft	.118 mh/ft	1.510 ns/fr	1.37% Nom	2.37% Nom
57288, 57289, 57290	FEP	30 Stranded	300 Vac	85 Ohms Nom	15.4 pf/ft	.110 mh/ft	1.36 ns/ft	2.5% Nom	2.8% Nom
219253	TPE	31 Stranded	150 Vac	90+/- 6 Ohms	15.4 pf/ft	.125 mh/ft	1.527 ns/ft	1.97% Nom	2.51% Nom
57038	PVC	32 Stranded	150 Vac	80 Ohms Nom	19.2 pf/ft	.147 mh/ft	1.51 ns/ft	4.0% Max	6.0% Max
219138	TPE	32 Stranded	150 Vac	104 Ohms Nom	12.8 pf/ft	.138 mh/ft	1.664 ns/ft	2.10% Nom	2.57% Nom
57118, 57138, 57144	FEP	32 Stranded	300 Vac	105 Ohms Nom	13.0 pf/ft	.120 mh/ft	1.36 ns/ft	2.6% Nom	2.8% Nom



Centerline IDC Ribbon Cable, PVC Insulation

30 AWG 7/38 Stranded Tinned Copper

For use with:

AMP-LATCH System 50, AMPLIMITE .050 Series and AMPMODU System 50 Connectors

Compatible with:

AMP R-CAM Ribbon Cable Assembly Machine

Product Specifications

Voltage Rating — 150 Volts **Impedance** — 66 ohms (GND, SIG, GND)

Capacitance — 23 pf/ft. at 1 KHz

Propagation Delay —

1.55 ns/ft. [5.6 ns/m]

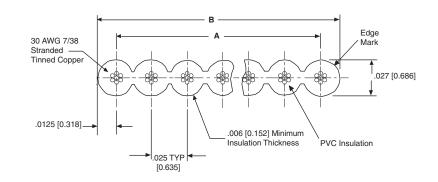
Crosstalk -

10 Ft. sample 5 ns rise time Near End — 2.8% max Near End — 4.5% max

UL AWM Style 2678







No. of	Dimensions		Part Numbers		
Conductors	Α	В	Length Per Reel		
			100 ft. [30.5 m]	500 ft. [152.4 m]	
20	.475 [12.07]	.500 [12.70]	1-57131-3	57131-1	
40	.975 [24.77]	1.000 [25.40]	1-57131-7	57131-2	
50	1.225 [31.12]	1.250 [31.75]	1-57131-9	1-57131-0	
68	1.675 [42.55]	1.700 [43.18]	2-57131-1	1-57131-1	
80	1.975 [50.17]	2.000 [50.80]	2-57131-3	57131-4	
100	2.475 [62.87]	2.500 [63.50]	2-57131-4	57131-5	

Note: All part numbers are RoHS compliant.

Dimensions are in inches and

millimeters unless otherwise specified. Values in brackets

are metric equivalents.

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Application Tooling for Flexible Film Contacts

Hand Crimping Tool Assemblies (for repair purposes)

Flexible Film Termination Machine (Terminates Continuous Strip Contacts Sequentially)



Part No. 90273-5—for .100 € Multi-Crimp Contacts (408-9564)

Extraction Tools for .100 & **Contacts**

Tool No. 91200-□*— for Receptacle Housings with **Side Locking Lance Slot** (408-7916)

Tool No. 91047-□*— for Receptacle and Pin Housings with **End Locking Lance Slot** (408-7384)

*Consult Tyco Electronics for specific dash nos.

For tooling information, contact the Technical Support Center: 1-800-522-6752.



The flexible film semiautomatic bench machine for terminating .050 [1.27] and .100 [2.54] centerline flexible flat conductor cable (FFC), flexible etched circuitry (FEC), and flexible printed wiring (FPW) with AMP FFC reel-mounted contacts. For each cable or circuitry, the contacts are automatically applied one-at-a-time in a straight sequence. To skip positions, an optional programmer control box is available. Crimp height is easily adjustable in .0002 [.0051] increments. Termination rates up to 200 contacts per minute.

	Machi	ne Part Numbers
Description	Machine	Machine With Programmer*
.100 [2.54] Q, Multi-Crimp, 120 V	224910-1	318619-1
.100 [2.54] Q, Multi-Crimp, 240 V	224910-2	318619-2
.100 [2.54] Q, ARINC, 120 V	224910-3	318619-3
.050 [1.27] €, Multi-Crimp, 120 V	224910-4	318619-4
.050 [1.27] €, Multi-Crimp, 240 V	224910-6	318619-6

^{*}The Programmer Kit (Part No. 356484-1) may be purchased with a new machine, or separately for adding onto an existing machine.

Technical Documents

Customer Manuals

409-5835 (Part Numbers 224910 and 409-5880 Programmer Kit (Part

Number 356484-1)

Specifications

Width — 20.5 [520] Depth — 27.5 [700] Height — 18 [460] (with reel support)

Reel Size — 24 [610] (max.) **Weight** — 100 lb. [45.4 kg]

Electrical Source

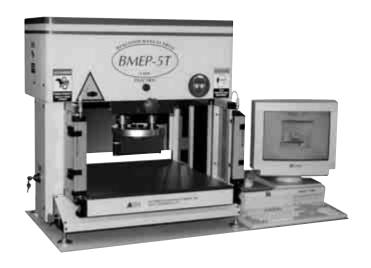
120 VAC, 50/60 Hz, 7.0 A; 240 VAC, 50/60 Hz, 3.5 A



Application Tooling for Compliant Pin Connectors

ASG Servo Electric Presses for Compliant Pin Connectors

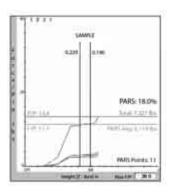
Tyco Electronics offers the ASG line of servo electric presses for the application of compliant pin products. Systems are available in a wide range of pressing forces, board size capabilities and automation levels to meet almost any applications requirements. Each system utilizes a servo electric motor with PC control. Coupled with force and distance monitoring and control, the entire line provides 100% quality assurance in real-time with SPC data collection capabilities. Automatic set up and a graphical operator interface help provide intuitive operation to help reduce common and costly operator errors.



Press Force Monitoring for Scrap Avoidance

Every Tyco Electronics ASG servo press utilizes real-time force and distance monitoring and control. This allows the press to identify an error and react throughout the press stroke. Common problems such as PCB holes above\below specification and sometimes bent pins can be detected by monitoring both

minimum and maximum force parameters. Common operator error such as improperly placed connectors, missing\incorrect connector or tooling can also be found by monitoring premature or missing force parameters. In each case, the system can stop during the press cycle to avoid costly scrap and rework.



Product Line Overview









	ВМЕР	MEP	AEP 6T	AEP 12T
System Type	Benchtop	Stand-Alone	Stand-Alone	Stand-Alone or
	Semi-Automatic Press	Semi-Automatic Press	Automatic Press	Inline Automatic Press
Force Capability	Up to 5 Tons	Up to 12 Tons	Up to 6 Tons	Up to 12 Tons
	[44 kN]	[107 kN]	[53 kN]	[107 kN]
Board Size Capability	Up to 18" x 24"	Up to 30" x 36"	Up to 30" x 36"	Up to 36" x 48"
	[460x610 mm]	[760x915 mm]	[760x915 mm]	[915x1220 mm]

Please contact the Tyco Tooling Assistance Center at 1-800-722-1111 for help with choosing the correct press and tooling to meet your application needs. See Catalog 1309329 for more information on this equipment.

Note: All part numbers are RoHS compliant.

Catalog 1307819 Revised 8-08

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



Application Tooling for Ribbon Cable Connectors

These application tools are designed for one-step termination of ribbon cable connectors to planar, ground plane and shielded/jacketed ribbon cable on .025 [0.64] centers. A complete set of tooling consists of an Arbor Tool (manual, Part No. 91085-2 or pneumatic, Part No. 91112-3), a Base Assembly, Part No. 768338-4 and a Connector Specific Kit, Part No. 679167-1 (receptacle).



Pneumatic Auto-Cycle Tool Part No. 91112-3



Manual Arbor Tool Part No. 91085-2

Technical Documents Instruction Sheets

408-7777 — Manual Arbor Frame Assembly

408-6732 — Pneumatic Auto-Cycle Assembly

408-9827 — Universal Base Assembly, Arbor Tool

408-9872 — Connector Specific Kit for Receptacle Connectors (.025 [0.64] Centerline Cable)

408-9928 — Connector Specific Kit for Paddleboard Connectors (.025 [0.64] Centerline Cable)

Note: Tooling is available for other manufacturers' manual arbor tools. For information contact the Tyco Electronics Technical Support Center: 1-800-522-6752

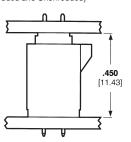


Performance Specifications

Board-to-Board Spacing for Thru-Hole and **Surface-Mount Connector Combinations**

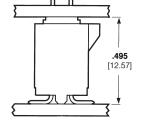
Thru-Hole Receptacle-Thru-Hole Header

(Single and Double Row, Shrouded and Unshrouded)



Surface-Mount Receptacle-Thru-Hole Header

(Double Row, Shrouded and Unshrouded)



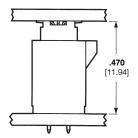
Thru-Hole Receptacle-

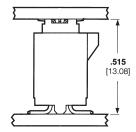
Surface-Mount Header

(Double Row, Shrouded)

Surface-Mount Receptacle-**Surface-Mount Header**

(Double Row, Shrouded)





Need more information?

Call the Technical Support Center: 1-800-522-6752. The Technical Support Center is staffed with specialists well versed in all Tyco Electronics products. The Center can provide you with:

- Technical Support
- Catalogs
- Technical Documents
- Product Samples
- Tyco Electronics Authorized Distributor Locations

Performance Specifications

Description	Board-to-Board, Thru-Hole Headers and Receptacles	Board-to-Board, Surface-Mount, Headers and Receptacles	Cable-to-Board, .050 [1.27] Centerline FFC Cable Receptacles	Cable-to-Board, .025 [0.64] Centerline Ribbon Cable Receptacles
Size Range-Single Row Double Row	4 thru 50 10 thru 100	 10 thru 100	4 thru 50 8 thru 100	 10 thru 100
Current Rating (per contact)	1.0 amperes	1.0 amperes	1.5 amperes	0.5 amperes
Dielectric Withstanding Voltage	500 VAC	500 VAC	300 VAC	200 VAC
Insulation Resistance	5,000 Megohms	5,000 Megohms	5,000 Megohms	5,000 Megohms
Durability (tested to)	200 Cycles	200 Cycles	200 Cycles	150 Cycles
Mating Force (per contact)	5 oz. [1.38 N] Max.	5 oz. [1.38 N] Max.	8 oz. [2.22 N] Max.	4 oz. [1.11 N] Max.
Unmating Force (per contact)	0.8 oz. [0.22 N] Min.	0.8 oz. [0.22 N] Min.	1.0 oz. [0.27 N] Min.	*0.5 oz. [0.13 N] Min
Operating Temperature	-65°C to +105°C	-65°C to +105°C	-55°C to +105°C	-65°C to +105°C

*With latches depressed.

Catalog 1307819 Revised 8-08

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

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USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



Technical Documents

The following is a list of technical documents covering the application, performance and maintenance of AMPMODU System 50 connectors.

Product Specifications describe technical performance characteristics and verification tests. They are intended for the Design, Component and Quality Engineer.

108-1093—AMPMODU System 50 Interconnection System, Board-to-Board

108-1109—AMPLATCH System 50 Receptacle and Paddleboard Connector

108-16022—Connector System, .050 [1.27] Centerline FFC Cable

108-16025—Connector, ZIF-Line 50

108-16029—Shielded Flexible Flat Conductor Cable

108-40002—Flexible Flat Conductor Cable

Application Specifications describe requirements for using the product in its intended application and/or crimping information. They are intended for the Packaging and Design Engineer and the Machine Setup Person.

114-16008—Multiple Crimp Contact for .050 [1.27] Centerline FFC and FEC Cable

114-16014—AMP ZIF-Line 50 & 100 PCB Connectors

114-25029—AMPMODU System 50 Ribbon Cable Connectors

114-25031—AMPMODU System 50 Thru-Hole Connectors

114-25035—AMPMODU Surface-Mount Connectors

114-25040—AMPMODU System 50 Paddleboard Connectors

Instruction Sheets provide instructions for assembling or applying the product. They are intended for the Manufacturing Assembler or Operator.

408-6732—Pneumatic Arbor Tool, Part Number 91112-3 (Auto-Cycle)

408-7384—Extraction Tool, Part Number 91047

408-7763—Pneumatic Arbor Tool, Part Number 91112-2

408-7777—Manual Arbor Tool, Part Number 91085-2

408-7916—Extraction Tool, Part Number 91200

408-9827—Universal Base Assembly, Arbor Tool, Part Number 768338-1

408-9872—Connector Specific Kit, Part Number 679167-1, AMPMODU System 50 Receptacle Connectors (.025 [0.64] Centerline Cable)

408-9928—Connector Specific Kit, Part Number 679176-1, AMPMODU System 50 Paddleboard Connectors (.025 [0.64] Centerline Cable)

408-9564—Hand Crimping Tool Assembly, Part Number 90273-5

408-9719—FFC Contact Positioning Hand Tool Kit, Part Number 91292-1

Note: All part numbers are RoHS compliant.

Downloaded from Arrow.com.

METRIC Dimensions are

millimeters over inches



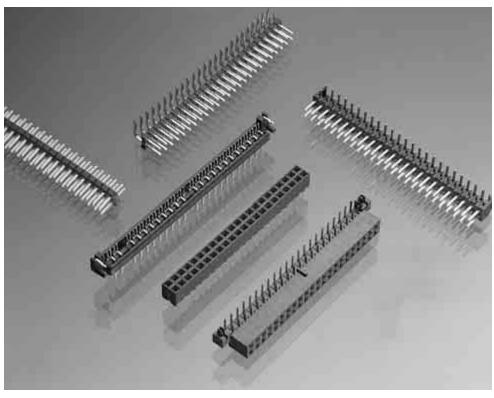
AMPMODU 2mm Connectors (Board to Board)

Product Facts

- 2.0 x 2.0 [.08 x .08] centerline spacing
- Two-piece, double-row connector system
- Unshrouded header styles include; breakaway and surface-mount
- All headers with 0.5 [.02] square posted contacts
- Surface-mount connectors compatible with standard surface-mount processing (VPR. IR)
- Closed top-entry receptacle assemblies include; vertical mount and right-angle
- Receptacle contacts employ dual cantilever beams for two-point electrical stability
- Duplex (gold/tin-lead) plated posted contacts and receptacle contacts
- Thermoplastic housing material, UL 94V-0 rated
- Recognized under the Component Program of Underwriters
 Laboratories Inc., File No. E28476
- Certified by Canadian Standards
 Association, File No. LR7189
- Produced under a Quality Management System certified to ISO 9001

A copy of the certificate is available upon request.





AMPMODU 2mm connectors reliably and economically meet the packaging and inter-connection requirements of today's miniature sophisticated electronics. They are ideal for mobile and portable personal computers and disk drive applications. In today's marketplace, 2mm is expanding over many other industry segments due to space constraints.

This versatile doublerow connector system is
comprised of various
straight and right-angle
posted headers for
thru-hole and surface
mounting and several
closed top-entry
receptacle assemblies
for vertical and horizontal
mounting. Headers and
receptacle assemblies are
available in selected sizes
ranging from 4 through
80 positions.

Thru-hole breakaway headers feature brass straight or right-angle posts with a post length of 4.0 [.16] and a lead length of 2.6 [.10].

The receptacle assemblies employ phosphor bronze contacts with dual cantilever beams and built-in anti-overstress. This feature, coupled with duplex (gold/tin-lead) plating of the header posts and receptacle contacts, provide superior electrical performance as well as excellent solderability.

2mm Headers, Unshrouded, Double Row, Thru-Hole, Vertical Mount

0.5 [.02] Square Straight Posts

Material and Finish

Housing — Black thermoplastic, UL 94V-0 Rated

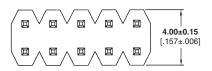
Posted Contacts — Copper alloy, duplex plated as follows: 0.00020 [.000008] min. gold on contact area, 0.00254 [.000100] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

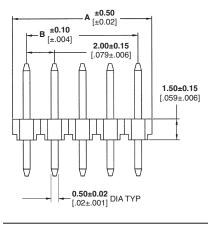
Related Product Data

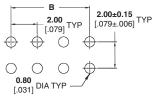
Mateable Receptacles — pages 80-84

Product Specification 108-57197

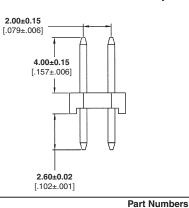
Packaging Method — Loose piece, ban







Recommended Solder Pad Layout



	Dimensions		Part Numbers		
Position	A	B	Refl	ow	
	A	В	240°C	265°C	
4	4.0 [.16]	2.0 [.08]	1470213-4	1734508-4	
6	6.0 [.24]	4.0 [.16]	1470213-6	1734508-6	
8	8.0 [.32]	6.0 [.24]	1470213-8	1734508-8	
10	10.0 [.39]	8.0 [.32]	1-1470213-0	1-1734508-0	
12	12.0 [.47]	10.0 [.39]	1-1470213-2	1-1734508-2	
14	14.0 [.55]	12.0 [.47]	1-1470213-4	1-1734508-4	
16	16.0 [.63]	14.0 [.55]	1-1470213-6	1-1734508-6	
18	18.0 [.71]	16.0 [.63]	1-1470213-8	1-1734508-8	
20	20.0 [.79]	18.0 [.71]	2-1470213-0	2-1734508-0	
22	22.0 [.87]	20.0 [.79]	2-1470213-2	2-1734508-2	
24	24.0 [.94]	22.0 [.87]	2-1470213-4	2-1734508-4	
26	26.0 [1.02]	24.0 [.94]	2-1470213-6	2-1734508-6	
28	28.0 [1.10]	26.0 [1.02]	2-1470213-8	2-1734508-8	
30	30.0 [1.18]	28.0 [1.10]	3-1470213-0	3-1734508-0	
32	32.0 [1.26]	30.0 [1.18]	3-1470213-2	3-1734508-2	
34	34.0 [1.34]	32.0 [1.26]	3-1470213-4	3-1734508-4	
36	36.0 [1.42]	34.0 [1.34]	3-1470213-6	3-1734508-6	
38	38.0 [1.50]	36.0 [1.42]	3-1470213-8	3-1734508-8	
40	40.0 [1.57]	38.0 [1.50]	4-1470213-0	4-1734508-0	
42	42.0 [1.65]	40.0 [1.57]	4-1470213-2	4-1734508-2	
44	44.0 [1.73]	42.0 [1.65]	4-1470213-4	4-1734508-4	
46	46.0 [1.81]	44.0 [1.73]	4-1470213-6	4-1734508-6	
48	48.0 [1.89]	46.0 [1.81]	4-1470213-8	4-1734508-8	
50	50.0 [1.97]	48.0 [1.89]	5-1470213-0	5-1734508-0	
52	52.0 [2.05]	50.0 [1.97]	5-1470213-2	5-1734508-2	
54	54.0 [2.13]	52.0 [2.05]	5-1470213-4	5-1734508-4	
56	56.0 [2.20]	54.0 [2.13]	5-1470213-6	5-1734508-6	
58	58.0 [2.28]	56.0 [2.20]	5-1470213-8	5-1734508-8	
60	60.0 [2.36]	58.0 [2.28]	6-1470213-0	6-1734508-0	
62	62.0 [2.44]	60.0 [2.36]	6-1470213-2	6-1734508-2	
64	64.0 [2.52]	62.0 [2.44]	6-1470213-4	6-1734508-4	
66	66.0 [2.60]	64.0 [2.52]	6-1470213-6	6-1734508-6	
68	68.0 [2.68]	66.0 [2.60]	6-1470213-8	6-1734508-8	
70	70.0 [2.76]	68.0 [2.68]	7-1470213-0	7-1734508-0	
72	72.0 [2.83]	70.0 [2.76]	7-1470213-2	7-1734508-2	
74	74.0 [2.91]	72.0 [2.83]	7-1470213-4	7-1734508-4	
76	76.0 [2.99]	74.0 [2.91]	7-1470213-6	7-1734508-6	
78	78.0 [3.07]	76.0 [2.99]	7-1470213-8	7-1734508-8	
80	80.0 [3.15]	78.0 [3.07]	8-1470213-0	8-1734508-0	

Note: All part numbers are RoHS compliant.

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Catalog 1307819 Revised 8-08

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

2mm Headers, Unshrouded, Double Row, Thru-Hole, Right-Angle Mount

0.5 [.02] Square Straight Posts

Material and Finish

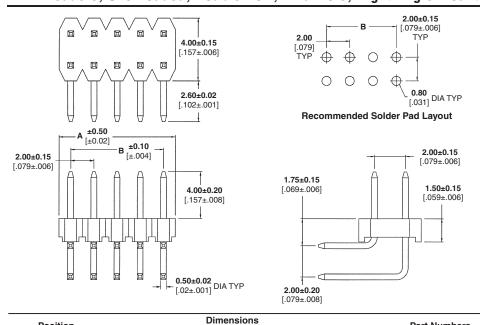
Housing — Black thermoplastic, UL 94V-O Rated, 265°C Process Capable Posted Contacts — Copper alloy, duplex plated as follows: 0.00020 [.000008] min. gold on contact area, 0.00254 [.000100] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

Related Product Data

Mateable Receptacles – pages 80-84

Product Specification 108-57197

Packaging Method — Loose piece, bag



Position	Dim	nensions	Part Numbers
Position	Α	В	rait Numbers
4	4.0 [0.16]	2.0 [0.08]	1734507-4
6	6.0 [0.24]	4.0 [0.16]	1734507-6
8	8.0 [0.31]	6.0 [0.24]	1734507-8
10	10.0 [0.39]	8.0 [0.31]	1-1734507-0
12	12.0 [0.47]	10.0 [0.39]	1-1734507-2
14	14.0 [0.55]	12.0 [0.47]	1-1734507-4
16	16.0 [0.63]	14.0 [0.55]	1-1734507-6
18	18.0 [0.71]	16.0 [0.63]	1-1734507-8
20	20.0 [0.79]	18.0 [0.71]	2-1734507-0
22	22.0 [0.87]	20.0 [0.79]	2-1734507-2
24	24.0 [0.94]	22.0 [0.87]	2-1734507-4
26	26.0 [1.02]	24.0 [0.94]	2-1734507-6
28	28.0 [1.10]	26.0 [1.02]	2-1734507-8
30	30.0 [1.18]	28.0 [1.10]	3-1734507-0
32	32.0 [1.26]	30.0 [1.18]	3-1734507-2
34	34.0 [1.34]	32.0 [1.26]	3-1734507-4
36	36.0 [1.42]	34.0 [1.34]	3-1734507-6
38	38.0 [1.50]	36.0 [1.42]	3-1734507-8
40	40.0 [1.57]	38.0 [1.50]	4-1734507-0
42	42.0 [1.65]	40.0 [1.57]	4-1734507-2
44	44.0 [1.73]	42.0 [1.65]	4-1734507-4
46	46.0 [1.81]	44.0 [1.73]	4-1734507-6
48	48.0 [1.89]	46.0 [1.81]	4-1734507-8
50	50.0 [1.97]	48.0 [1.89]	5-1734507-0
52	52.0 [2.05]	50.0 [1.97]	5-1734507-2
54	54.0 [2.13]	52.0 [2.05]	5-1734507-4
56	56.0 [2.20]	54.0 [2.13]	5-1734507-6
58	58.0 [2.28]	56.0 [2.20]	5-1734507-8
60	60.0 [2.36]	58.0 [2.28]	6-1734507-0
62	62.0 [2.44]	60.0 [2.36]	6-1734507-2
64	64.0 [2.52]	62.0 [2.44]	6-1734507-4
66	66.0 [2.60]	64.0 [2.52]	6-1734507-6
68	68.0 [2.68]	66.0 [2.60]	6-1734507-8
70	70.0 [2.76]	68.0 [2.68]	7-1734507-0
72	72.0 [2.83]	70.0 [2.76]	7-1734507-2
74	74.0 [2.91]	72.0 [2.83]	7-1734507-4
76	76.0 [2.99]	74.0 [2.91]	7-1734507-6
78	78.0 [3.07]	76.0 [2.99]	7-1734507-8
80	80.0 [3.15]	78.0 [3.07]	8-1734507-0

Note: All part numbers are RoHS compliant.

Catalog 1307819 Revised 8-08

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

2mm Breakaway Headers, Unshrouded, Double Row, Thru-Hole, **Right-Angle Mount**

0.5 [.02] Square **Right-Angle Posts**

Material and Finish

Housing — Black thermoplastic,

Posted Contacts — Brass, duplex plated as follows:

A — 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

 ${\bf B}$ — 0.00076 [.000030] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min.

Related Product Data

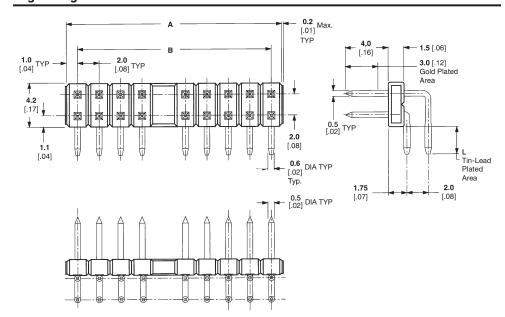
Mateable Receptacles -

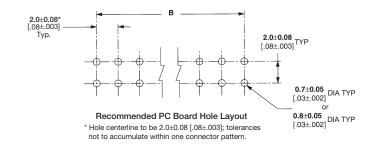
pages 80-84

Product Specification

108-5296

Packaging Method — Loose piece,





No.	Dimo	ensions	Contact	t Plating
of			Lead Length	L = 2.6[.10]**
Positions	Α	В	A	В
4	4.0 [0.16]	2.0 [0.08]	5176837-1	2-5176837-5
6	6.0 [0.24]	4.0 [0.16]	5176837-2	2-5176837-6
8	8.0 [0.31]	6.0 [0.24]	5176837-3	_
10	10.0 [0.39]	8.0 [0.31]	5176837-4	_
12	12.0 [0.47]	10.0 [0.39]	5176837-5	_
14	14.0 [0.55]	12.0 [0.47]	5176837-6	3-5176837-0
16	16.0 [0.63]	14.0 [0.55]	5176837-7	_
18	18.0 [0.71]	16.0 [0.63]	_	3-5176837-2
20	20.0 [0.79]	18.0 [0.71]	_	3-5176837-3
22	22.0 [0.87]	20.0 [0.79]	_	3-5176837-4
26	26.0 [1.02]	24.0 [0.94]	1-5176837-2	_
30	30.0 [1.18]	28.0 [1.10]	1-5176837-4	_
32	32.0 [1.26]	30.0 [1.18]	1-5176837-5	3-5176837-9
34	34.0 [1.34]	32.0 [1.26]	_	4-5176837-0
36	36.0 [1.42]	34.0 [1.34]	_	4-5176837-1
38	38.0 [1.50]	36.0 [1.42]	1-5176837-8	4-5176837-2
40	40.0 [1.57]	38.0 [1.50]	1-5176837-9	5-5176837-2
42	42.0 [1.65]	40.0 [1.57]	2-5176837-0	4-5176837-4
44	44.0 [1.73]	42.0 [1.65]	2-5176837-1	_
46	46.0 [1.81]	44.0 [1.73]	2-5176837-2	4-5176837-6
48	48.0 [1.89]	46.0 [1.81]	2-5176837-3	4-5176837-7
50	50.0 [1.97]	48.0 [1.89]	2-5176837-4	4-5176837-8

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Catalog 1307819 Revised 8-08

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



2mm Breakaway Headers, Unshrouded, Double Row, Thru-Hole, Vertical Mount

0.5 [.02] Square Straight Posts

Material and Finish

Housing — Black thermoplastic, UL 94V-0 rated

Posted Contacts — Brass, duplex plated as follows:

Plating A — 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

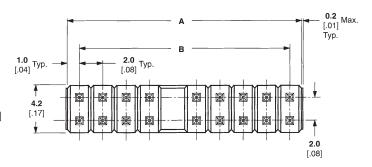
Plating B — 0.00076 [.000030] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

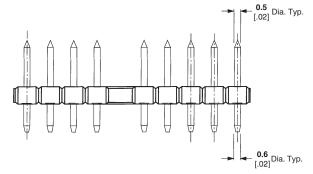
Related Product Data

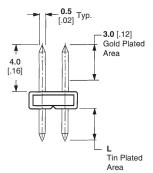
Mateable Receptacles — pages 80-84

Product Specification 108-5296

Packaging Method — Loose piece, bag

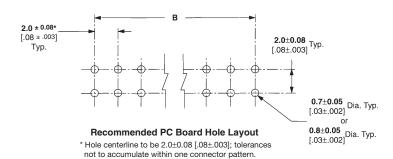






METRIC Dimensions are

millimeters over inches





2mm Breakaway Headers, Unshrouded, Double Row, Thru-Hole, Vertical Mount (Continued)

0.5 [.02] Square Straight Posts

No.	Dimensions		Dimensions Contact Plating			
of			Lead Length	L = 1.5 [.06]	Lead Length	L = 2.6 [.10]
Positions	ons A B -	Plating A	Plating B	Plating A	Plating B	
4	4.0 [0.16]	2.0 [0.08]	5178751-1	2-5178751-5	5176264-1	1-5176264-6
6	6.0 [0.24]	4.0 [0.16]	_	2-5178751-6	5176264-2	1-5176264-7
8	8.0 [0.31]	6.0 [0.24]	_	2-5178751-7	5176264-3	1-5176264-8
10	10.0 [0.39]	8.0 [0.31]	5178751-4	2-5178751-8	5176264-4	1-5176264-9
12	12.0 [0.47]	10.0 [0.39]	_	2-5178751-9	5176264-5	2-5176264-0
14	14.0 [0.55]	12.0 [0.47]	5178751-6	3-5178751-0	5176264-6	2-5176264-1
16	16.0 [0.63]	14.0 [0.55]	_	3-5178751-1	5176264-7	2-5176264-2
18	18.0 [0.71]	16.0 [0.63]	5178751-8	3-5178751-2	5176264-8	2-5176264-3
20	20.0 [0.79]	18.0 [0.71]	5178751-9	3-5178751-3	5176264-9	2-5176264-4
22	22.0 [0.87]	20.0 [0.79]	1-5178751-0	3-5178751-4	1-5176264-0	2-5176264-5
24	24.0 [0.94]	22.0 [0.87]	1-5178751-1	3-5178751-5	1-5176264-1	2-5176264-6
26	26.0 [1.02]	24.0 [0.94]	1-5178751-2	3-5178751-6	_	_
28	28.0 [1.10]	26.0 [1.02]	_	3-5178751-7	1-5176264-3	_
30	30.0 [1.18]	28.0 [1.10]	1-5178751-4	3-5178751-8	1-5176264-4	2-5176264-9
32	32.0 [1.26]	30.0 [1.18]	1-5178751-5	3-5178751-9	1-5176264-5	_
34	34.0 [1.34]	32.0 [1.26]	1-5178751-6	4-5178751-0	_	4-5176264-0
36	36.0 [1.42]	34.0 [1.34]	1-5178751-7	4-5178751-1	3-5176264-2	4-5176264-1
38	38.0 [1.50]	36.0 [1.42]	1-5178751-8	4-5178751-2	3-5176264-3	_
40	40.0 [1.57]	38.0 [1.50]	1-5178751-9	4-5178751-3	3-5176264-4	_
42	42.0 [1.65]	40.0 [1.57]	2-5178751-0	4-5178751-4	_	_
44	44.0 [1.73]	42.0 [1.65]	2-5178751-1	4-5178751-5	3-5176264-6	4-5176264-5
46	46.0 [1.81]	44.0 [1.73]	2-5178751-2	4-5178751-6	_	4-5176264-6
48	48.0 [1.89]	46.0 [1.81]	2-5178751-3	4-5178751-7	_	4-5176264-7
50	50.0 [1.97]	48.0 [1.89]	2-5178751-4	4-5178751-8	3-5176264-9	4-5176264-8

Note: All part numbers are RoHS compliant.

Dimensions are millimeters over inches



2mm Breakaway Headers, Unshrouded, Double Row, Surface Mount, **Vertical Mount**

0.5 [.02] Square Straight **Posts**

Material and Finish

Housing — Black polyphenylene sulfide, UL 94V-0 rated

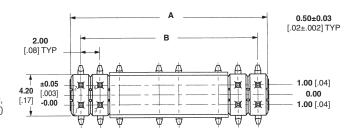
Posted Contacts — Phosphor bronze, plated as follows, Duplex plated 0.00020 [.000008] min. gold on contact area, 0.00200 [.000079] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

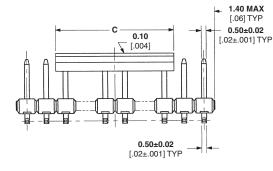
Related Product Data

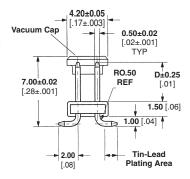
Mateable Receptacles pages 80-84

Product Specification 108-51001

Packaging Method — Tape & Reel

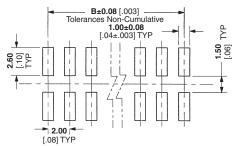






METRIC Dimensions are

millimeters over inches



Recommended Solder Pad Layout

No. of		Dimensions			
Positions	Α	В	С	Numbers	
4	4.0 [0.16]	2.0 [0.08]	4.0 [0.16]	5084476-1	
6	6.0 [0.24]	4.0 [0.16]	6.0 [0.24]	5084476-2	
12	12.0 [0.47]	10.0 [0.39]	5.0 [0.20]	5084476-7	
16	16.0 [0.63]	14.0 [0.55]	8.0 [0.31]	5084476-3	





2mm Breakaway Headers, Unshrouded, Double Row, Surface Mount, Vertical Mount (Continued)

0.5 [.02] Square Straight Posts

Material and Finish

Housing — Black polyphenylene sulfide, UL 94V-0 rated

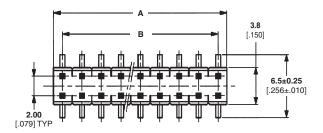
Posted Contacts — Phosphor bronze, plated as follows, Duplex plated 0.0076 [.000030] min. gold on contact area, 0.00254-0.00406 [.000100-.000160] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

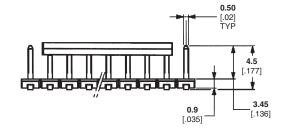
Related Product Data

Mateable Receptacles — pages 80-84

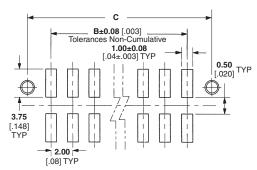
Product Specification 108-18544

Packaging Method — Tape & Reel









Recommended Solder Pad Layout

No. of		Dimensions		Part
Positions	Α	В	С	Numbers
4	4.0 [0.16]	2.0 [0.08]	7.60 [0.30]	966926-2
6	6.0 [0.24]	4.0 [0.16]	9.60 [0.38]	966926-3
8	8.0 [0.31]	6.0 [0.24]	11.60 [0.46]	966926-4
10	10.0 [0.39]	8.0 [0.31]	13.60 [0.53]	966926-5
12	12.0 [0.47]	10.0 [0.39]	15.60 [0.61]	966926-6
14	14.0 [0.55]	12.0 [0.47]	17.60 [0.69]	966926-7
16	16.0 [0.63]	14.0 [0.55]	19.60 [0.77]	966926-8
18	18.0 [0.71]	16.0 [0.63]	21.60 [0.85]	966926-9
20	20.0 [0.79]	18.0 [0.71]	23.60 [0.93]	1-966926-0
22	22.0 [0.87]	20.0 [0.79]	25.60 [1.01]	1-966926-1
24	24.0 [0.94]	22.0 [0.87]	27.60 [1.09]	1-966926-2

Note: All part numbers are RoHS compliant.

Downloaded from Arrow.com.

METRIC Dimensions are millimeters over inches



2mm Stacking Header, Unshrouded, Double Row, Thru-Hole, Vertical Mount

0.5 [.02] Square Straight Posts

12 Position Part Number 1734770-1

Material and Finish

Housing — Black thermoplastic, UL 94 V-O Rated

Posted Contacts — Copper alloy, duplex plated as follows:

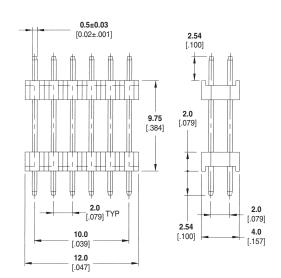
Gold flash all over contact underplated 0.00127 [.000050] min. nickel

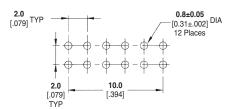
Related Product Data

Mateable Receptacles — pages 80-84

Product Specification 108-57331

Packaging Method — Loose piece, bag







METRIC Dimensions are millimeters over inches

2mm Headers, Shrouded, Double Row, Thru-Hole, Right-Angle Mount

0.5 [.02] Square Right-Angle Posts

26 Position Part Number 5084780-1

Material and Finish

Housing — High temperature, black thermoplastic, UL 94 V-O Rated

Posted Contacts — Copper alloy, duplex plated as follows: 0.00038 [.000015] min. gold on contact area, 0.00254 [.000100] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

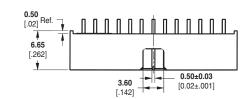
Related Product Data

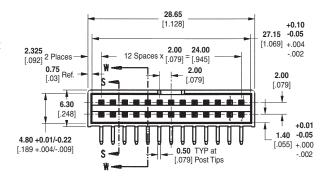
Mateable Receptacles — pages 80 and 84

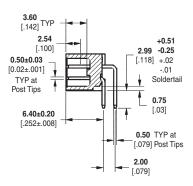
Product Specification

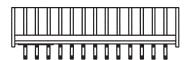
108-5296

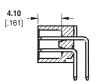
Packaging Method — Tube

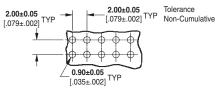












Recommended PCB Layout

METRIC Dimensions are

millimeters over inches



2mm Headers, Shrouded, Double Row, Thru-Hole, Right-Angle Mount (Continued)

0.5 [.02] Square Right-Angle Posts

Material and Finish

Housing — Natural color thermoplastic, UL 94 V-O Rated

Posted Contacts — Brass, plated as follows:

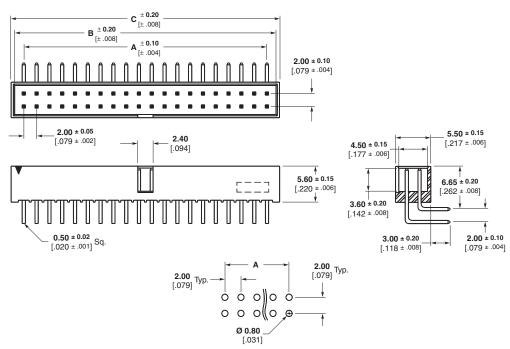
0.00020 [.000008] min. gold on contact area, with 0.00254 [.00010] tin on soldertails, with entire contact underplated 0.00127 [.000050] min. nickel

Related Product Data

Mateable Receptacles — pages 80 and 84

Product Specification 108-57197

Packaging Method — Tubes



Recommended PCB Layout

No. of		Dimensions		Part Numbers
Positions	Α	В	С	Part Numbers
8	6.0 [0.24]	8.85 [0.35]	9.95 [0.39]	1734493-8
10	8.0 [0.31]	10.85 [0.43]	11.95 [0.47]	1-1734493-0
12	10.0 [0.39]	12.85 [0.51]	13.95 [0.55]	1-1734493-2
14	12.0 [0.47]	14.85 [0.58]	15.95 [0.63]	1-1734493-4
16	14.0 [0.55]	16.85 [0.66]	17.95 [0.71]	1-1734493-6
18	16.0 [0.63]	18.85 [0.74]	19.95 [0.79]	1-1734493-8
20	18.0 [0.71]	20.85 [0.82]	21.95 [0.86]	2-1734493-0
22	20.0 [0.79]	22.85 [0.90]	23.95 [0.94]	2-1734493-2
24	22.0 [0.87]	24.85 [0.98]	25.95 [1.02]	2-1734493-4
26	24.0 [0.94]	26.85 [1.06]	27.95 [1.10]	2-1734493-6
28	26.0 [1.02]	28.85 [1.14]	29.95 [1.18]	2-1734493-8
30	28.0 [1.10]	30.85 [1.21]	31.95 [1.26]	3-1734493-0
32	30.0 [1.18]	32.85 [1.29]	33.95 [1.34]	3-1734493-2
34	32.0 [1.26]	34.85 [1.37]	35.95 [1.42]	3-1734493-4
36	34.0 [1.34]	36.85 [1.45]	37.95 [1.49]	3-1734493-6
38	36.0 [1.42]	38.85 [1.53]	39.95 [1.57]	3-1734493-8
40	38.0 [1.50]	40.85 [1.61]	41.95 [1.65]	4-1734493-0
42	40.0 [1.57]	42.85 [1.69]	43.95 [1.73]	4-1734493-2
44	42.0 [1.65]	44.85 [1.77]	45.95 [1.81]	4-1734493-4
46	44.0 [1.73]	46.85 [1.84]	47.95 [1.89]	4-1734493-6
48	46.0 [1.81]	48.85 [1.92]	49.95 [1.97]	4-1734493-8
50	48.0 [1.89]	50.85 [2.00]	51.95 [2.05]	5-1734493-0
52	50.0 [1.97]	52.85 [2.08]	53.95 [2.12]	5-1734493-2
54	52.0 [2.05]	54.85 [2.16]	55.95 [2.20]	5-1734493-4
56	54.0 [2.13]	56.85 [2.34]	57.95 [2.28]	5-1734493-6
58	56.0 [2.20]	58.85 [2.32]	59.95 [2.36]	5-1734493-8
60	58.0 [2.28]	60.85 [2.40]	61.95 [2.44]	6-1734493-0
62	60.0 [2.36]	62.85 [2.47]	63.95 [2.52]	6-1734493-2
64	62.0 [2.44]	64.85 [2.55]	65.95 [2.60]	6-1734493-4





2mm Headers, Shrouded, Double Row, Surface Mount, Vertical Mount

0.5 [.02] Square Posts

Material and Finish

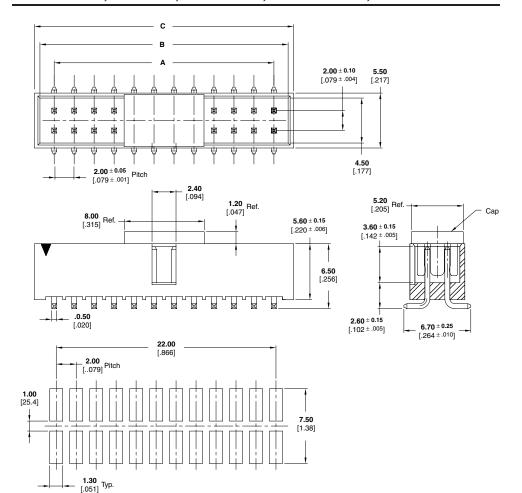
Housing — Black color, PA9T (Nylon 9T), UL 94 V-O Rated

Posted Contacts — Brass, plated as follows:

0.00076 [.000003] min. gold on contact area, with 0.00254 [.00010] matte tin on soldertails, with entire contact underplated 0.00127 [.000050] min. nickel

Related Product Data

Mateable Receptacles — pages 80, 81, and 84



Recommended PCB Layout

No. of		Dimensions		Part Numbers
Positions	Α	В	С	Part Numbers
8	6.0 [0.24]	8.85 [0.35]	9.95 [0.39]	2041068-8
10	8.0 [0.31]	10.85 [0.43]	11.95 [0.47]	1-2041068-0
12	10.0 [0.39]	12.85 [0.51]	13.95 [0.55]	1-2041068-2
14	12.0 [0.47]	14.85 [0.58]	15.95 [0.63]	1-2041068-4
16	14.0 [0.55]	16.85 [0.66]	17.95 [0.71]	1-2041068-6
18	16.0 [0.63]	18.85 [0.74]	19.95 [0.79]	1-2041068-8
20	18.0 [0.71]	20.85 [0.82]	21.95 [0.86]	2-2041068-0
22	20.0 [0.79]	22.85 [0.90]	23.95 [0.94]	2-2041068-2
24	22.0 [0.87]	24.85 [0.98]	25.95 [1.02]	2-2041068-4
26	24.0 [0.94]	26.85 [1.06]	27.95 [1.10]	2-2041068-6
28	26.0 [1.02]	28.85 [1.14]	29.95 [1.18]	2-2041068-8
30	28.0 [1.10]	30.85 [1.21]	31.95 [1.26]	3-2041068-0
32	30.0 [1.18]	32.85 [1.29]	33.95 [1.34]	3-2041068-2
34	32.0 [1.26]	34.85 [1.37]	35.95 [1.42]	3-2041068-4
36	34.0 [1.34]	36.85 [1.45]	37.95 [1.49]	3-2041068-6
38	36.0 [1.42]	38.85 [1.53]	39.95 [1.57]	3-2041068-8
40	38.0 [1.50]	40.85 [1.61]	41.95 [1.65]	4-2041068-0
42	40.0 [1.57]	42.85 [1.69]	43.95 [1.73]	4-2041068-2
44	42.0 [1.65]	44.85 [1.77]	45.95 [1.81]	4-2041068-4
46	44.0 [1.73]	46.85 [1.84]	47.95 [1.89]	4-2041068-6
48	46.0 [1.81]	48.85 [1.92]	49.95 [1.97]	4-2041068-8
50	48.0 [1.89]	50.85 [2.00]	51.95 [2.05]	5-2041068-0

Note: All part numbers are RoHS compliant.

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Catalog 1307819 Revised 8-08

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

(Continued)

METRIC Dimensions are millimeters over inches



2mm Headers, Shrouded, Double Row, Surface Mount, Vertical Mount

0.5 [.02] Square Straight **Posts**

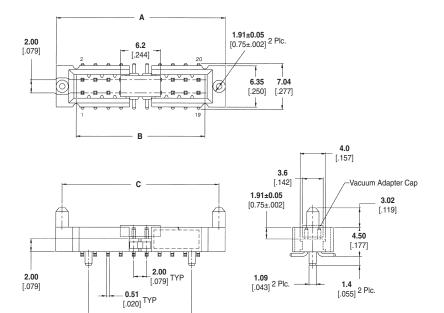
Material and Finish

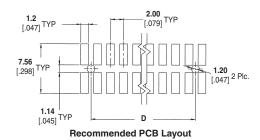
Housing — Black high temperature thermoplastic, UL 94 V-O Rated

Posted Contacts — Phosphor Bronze, duplex plated as follows: 0.00076[0.000030] min. gold on contact area, 0.00381[.000150] min. tin on solder area, with entire contact underplated 0.00127[.000050] min. nickel

Product Specification 108-57328

Packaging Method — Tape and reel





No. of		Dimensions				
Positions	Α	В	С	D	Part Numbers	
20	26.2 [1.03]	20.0 [0.79]	24.3 [0.96]	16.0 [.63]	2-1734569-0	
30	36.2 [1.43]	30.0 [1.18]	34.3 [1.35]	26.0 [1.02]	3-1734569-0	

Note: All part numbers are RoHS compliant.

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2mm Headers, Shrouded, Double Row, Thru-Hole, Vertical Mount

0.5 [.02] Square Straight Posts with Cable Shroud

Material and Finish

Housing — Black thermoplastic, UL 94 V-O Rated

Posted Contacts — Brass, duplex plated as follows:

0.00254 [.000100] min. tin on contact area, with entire contact underplated 0.00127 [.000050] min. nickel

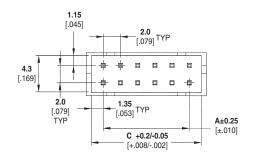
Related Product Data

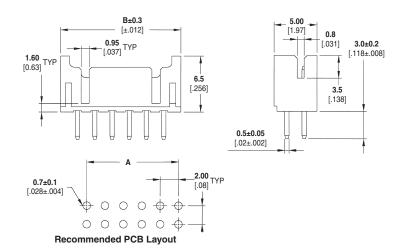
Mateable Receptacles -

See Drawings 1470106 Contacts and 1470107 Housing

Product Specification 108-57217

Packaging Method — Loose piece, bag





No. of		Dimensions		Part Numbers
Position	Α	В	С	T dit Humbers
6	4.0 [0.16]	8.0 [0.31]	6.74 [0.26]	1470109-6
8	6.0 [0.24]	10.0 [0.39]	8.74 [0.34]	1470109-8
10	8.0 [0.31]	12.0 [0.47]	10.74 [0.42]	1-1470109-0
12	10.0 [0.39]	14.0 [0.55]	12.74 [0.50]	1-1470109-2
14	12.0 [0.47]	16.0 [0.63]	14.74 [0.58]	1-1470109-4
16	14.0 [0.55]	18.0 [0.71]	16.74 [0.66]	1-1470109-6
18	16.0 [0.63]	20.0 [0.79]	18.74 [0.74]	1-1470109-8
20	18.0 [0.71]	22.0 [0.87]	20.74 [0.82]	2-1470109-0
22	20.0 [0.79]	24.0 [0.94]	22.74 [0.89]	2-1470109-2
24	22.0 [0.87]	26.0 [1.02]	24.74 [0.97]	2-1470109-4
26	24.0 [0.94]	28.0 [1.10]	26.74 [1.05]	2-1470109-6
28	26.0 [1.02]	30.0 [1.18]	28.74 [1.13]	2-1470109-8
30	28.0 [1.10]	32.0 [1.26]	30.74 [1.21]	3-1470109-0
32	30.0 [1.18]	34.0 [1.34]	32.74 [1.29]	3-1470109-2



2mm Headers, Shrouded, Double Row, Thru-Hole, Right-Angle Mount

0.5 [.02] Square Right-Angle Posts with Cable Shroud

Material and Finish

Housing — Black thermoplastic, UL 94 V-O Rated

Posted Contacts — Brass, duplex plated as follows:

0.00254 [.000100] min. tin on contact area, with entire contact underplated 0.00127 [.000050] min. nickel

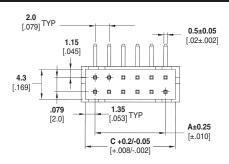
Related Product Data

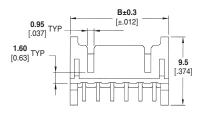
Mateable Receptacles —

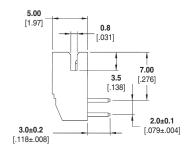
See Drawings 1470106 Contacts and 1470107 Housing

Product Specification 108-57217

Packaging Method — Loose piece, bag

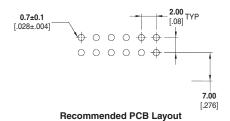






METRIC Dimensions are

millimeters over inches



Dimensions No. of **Part Numbers** Position 6 **4.0** [0.16] 8.00 [0.31] 6.74 [0.26] 1470108-6 10.00 [0.39] 6.0 [0.24] 1470108-8 8 **8.74** [0.34] 10 **8.0** [0.32] **12.00** [0.47] **10.74** [0.42] 1-1470108-0 **10.0** [0.39] 14.00 [0.55] **12.74** [0.50] 1-1470108-2 12 14 **12.0** [0.47] **16.00** [0.63] 14.74 [0.58] 1-1470108-4 16 18.0 [0.71] 18.00 [0.71] 16.74 [0.66] 1-1470108-6 **14.0** [0.55] 18 **20.00** [0.79] **18.74** [0.74] 1-1470108-8 **16.0** [0.63] **22.00** [0.87] 20.74 [0.82] 2-1470108-0 20 **22.74** [0.89] 22 22.0 [0.87] 24.00 [0.94] 2-1470108-2 **20.0** [0.79] **26.00** [1.02] **24.74** [0.97] 24 2-1470108-4 26 **24.0** [0.94] 28.00 [1.10] 26.74 [1.05] 2-1470108-6 **30.00** [1.18] 28 **28.0** [1.10] 28.74 [1.13] 2-1470108-8 30 **26.0** [1.02] **32.00** [1.26] 30.74 [1.21] 3-1470108-0 32 **30.0** [1.18] 34.00 [1.34] 32.74 [1.29] 3-1470108-2





2mm Centerline Receptacles, Double Row, Thru-Hole, Vertical Mount

Receptacle, Thru-Hole, Vertical

Material and Finish

Housing — Black thermoplastic, UL 94 V-O Rated, 245°C Reflow

Contacts — Copper alloy, plated as follows:

A — 0.00020 [.000008] min. gold on contact area, 0.00203 [.000080] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min.

B — 0.00076 [.000030] min. gold on contact area, 0.00203 [.000080] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

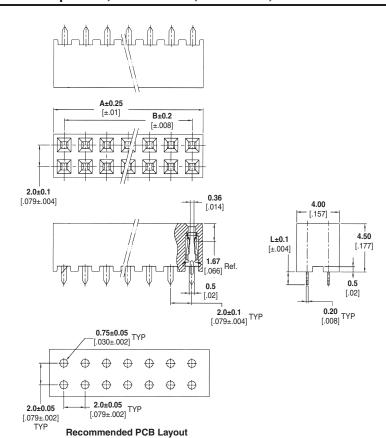
Related Product Data

Mateable Headers — pages 66-76, 78, 79

pagos 00 70, 70, 75

Product Specification 108-57197

Packaging Method — Tray



				Part No	umbers		
No. of Positions	Dimensions		Plati	Plating A		Plating B	
	A	В	Dim. L 1.2+/-0.1 (.047+/004)	Dim. L 2.6+/-0.1 (.102+/004)	Dim. L 1.2+/-0.1 (.047+/004)	Dim. L 2.6+/-0.1 (.102+/004)	
4	4.0 [.157]	2.0 [.079]	1470209-1	2-1470209-5	5-1470209-1	7-1470209-5	
6	6.0 [.236]	4.0 [.157]	1470209-2	2-1470209-6	5-1470209-2	7-1470209-6	
8	8.0 [.315]	6.0 [.236]	1470209-3	2-1470209-7	5-1470209-3	7-1470209-7	
10	10.0 [.394]	8.0 [.315]	1470209-4	2-1470209-8	5-1470209-4	7-1470209-8	
12	12.0 [.472]	10.0 [.394]	1470209-5	2-1470209-9	5-1470209-5	7-1470209-9	
14	14.0 [.551]	12.0 [.472]	1470209-6	3-1470209-0	5-1470209-6	8-1470209-0	
16	16.0 [.630]	14.0 [.551]	1470209-7	3-1470209-1	5-1470209-7	8-1470209-1	
18	18.0 [.709]	16.0 [.630]	1470209-8	3-1470209-2	5-1470209-8	8-1470209-2	
20	20.0 [.787]	18.0 [.709]	1470209-9	3-1470209-3	5-1470209-9	8-1470209-3	
22	22.0 [.866]	20.0 [.787]	1-1470209-0	3-1470209-4	6-1470209-0	8-1470209-4	
24	24.0 [.945]	22.0 [.866]	1-1470209-1	3-1470209-5	6-1470209-1	8-1470209-5	
26	26.0 [1.024]	24.0 [.945]	1-1470209-2	3-1470209-6	6-1470209-2	8-1470209-6	
28	28.0 [1.102]	26.0 [1.024]	1-1470209-3	3-1470209-7	6-1470209-3	8-1470209-7	
30	30.0 [1.181]	28.0 [1.102]	1-1470209-4	3-1470209-8	6-1470209-4	8-1470209-8	
32	32.0 [1.260]	30.0 [1.181]	1-1470209-5	3-1470209-9	6-1470209-5	8-1470209-9	
34	34.0 [1.339]	32.0 [1.260]	1-1470209-6	4-1470209-0	6-1470209-6	9-1470209-0	
36	36.0 [1.417]	34.0 [1.339]	1-1470209-7	4-1470209-1	6-1470209-7	9-1470209-1	
38	38.0 [1.496]	36.0 [1.417]	1-1470209-8	4-1470209-2	6-1470209-8	9-1470209-2	
40	40.0 [1.575]	38.0 [1.496]	1-1470209-9	4-1470209-3	6-1470209-9	9-1470209-3	
42	42.0 [1.654]	40.0 [1.575]	2-1470209-0	4-1470209-4	7-1470209-0	9-1470209-4	
44	44.0 [1.732]	42.0 [1.654]	2-1470209-1	4-1470209-5	7-1470209-1	9-1470209-5	
46	46.0 [1.811]	44.0 [1.732]	2-1470209-2	4-1470209-6	7-1470209-2	9-1470209-6	
48	48.0 [1.890]	46.0 [1.811]	2-1470209-3	4-1470209-7	7-1470209-3	9-1470209-7	
50	50.0 [1.969]	48.0 [1.890]	2-1470209-4	4-1470209-8	7-1470209-4	9-1470209-8	

Note: All part numbers are RoHS compliant.

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Catalog 1307819 Revised 8-08

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

METRIC Dimensions are

millimeters over inches



2mm Centerline Receptacles, Double Row, Thru-Hole, Vertical Mount (Continued)

Receptacle, Thru-Hole, Vertical

Material and Finish

Housing — Black thermoplastic, UL 94 V-O Rated, 265°C Process Capable

Contacts — Copper alloy, plated as follows:

A — 0.00020 [.000008] min. gold on contact area, 0.00203 [.000080] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min.

B — 0.00076 [.000030] min. gold on contact area, 0.00203 [.000080] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

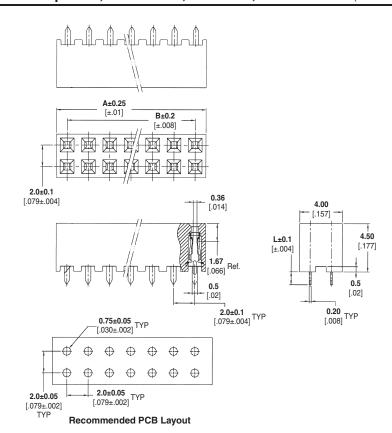
Related Product Data

Mateable Headers —

pages 66-76, 78, 79

Product Specification 108-57197

Packaging Method — Tray



			Part Numbers				
No. of Positions	Dimensions		Plating A		Plating B		
	Α	В	Dim. L 1.2+/-0.1 (.047+/004)	Dim. L 2.6+/-0.1 (.102+/004)	Dim. L 1.2+/-0.1 (.047+/004)	Dim. L 2.6+/-0.1 (.102+/004)	
4	4.0 [.157]	2.0 [.079]	1734506-1	2-1734506-5	5-1734506-1	7-1734506-5	
6	6.0 [.236]	4.0 [.157]	1734506-2	2-1734506-6	5-1734506-2	7-1734506-6	
8	8.0 [.315]	6.0 [.236]	1734506-3	2-1734506-7	5-1734506-3	7-1734506-7	
10	10.0 [.394]	8.0 [.315]	1734506-4	2-1734506-8	5-1734506-4	7-1734506-8	
12	12.0 [.472]	10.0 [.394]	1734506-5	2-1734506-9	5-1734506-5	7-1734506-9	
14	14.0 [.551]	12.0 [.472]	1734506-6	3-1734506-0	5-1734506-6	8-1734506-0	
16	16.0 [.630]	14.0 [.551]	1734506-7	3-1734506-1	5-1734506-7	8-1734506-1	
18	18.0 [.709]	16.0 [.630]	1734506-8	3-1734506-2	5-1734506-8	8-1734506-2	
20	20.0 [.787]	18.0 [.709]	1734506-9	3-1734506-3	5-1734506-9	8-1734506-3	
22	22.0 [.866]	20.0 [.787]	1-1734506-0	3-1734506-4	6-1734506-0	8-1734506-4	
24	24.0 [.945]	22.0 [.866]	1-1734506-1	3-1734506-5	6-1734506-1	8-1734506-5	
26	26.0 [1.024]	24.0 [.945]	1-1734506-2	3-1734506-6	6-1734506-2	8-1734506-6	
28	28.0 [1.102]	26.0 [1.024]	1-1734506-3	3-1734506-7	6-1734506-3	8-1734506-7	
30	30.0 [1.181]	28.0 [1.102]	1-1734506-4	3-1734506-8	6-1734506-4	8-1734506-8	
32	32.0 [1.260]	30.0 [1.181]	1-1734506-5	3-1734506-9	6-1734506-5	8-1734506-9	
34	34.0 [1.339]	32.0 [1.260]	1-1734506-6	4-1734506-0	6-1734506-6	9-1734506-0	
36	36.0 [1.417]	34.0 [1.339]	1-1734506-7	4-1734506-1	6-1734506-7	9-1734506-1	
38	38.0 [1.496]	36.0 [1.417]	1-1734506-8	4-1734506-2	6-1734506-8	9-1734506-2	
40	40.0 [1.575]	38.0 [1.496]	1-1734506-9	4-1734506-3	6-1734506-9	9-1734506-3	
42	42.0 [1.654]	40.0 [1.575]	2-1734506-0	4-1734506-4	7-1734506-0	9-1734506-4	
44	44.0 [1.732]	42.0 [1.654]	2-1734506-1	4-1734506-5	7-1734506-1	9-1734506-5	
46	46.0 [1.811]	44.0 [1.732]	2-1734506-2	4-1734506-6	7-1734506-2	9-1734506-6	
48	48.0 [1.890]	46.0 [1.811]	2-1734506-3	4-1734506-7	7-1734506-3	9-1734506-7	
50	50.0 [1.969]	48.0 [1.890]	2-1734506-4	4-1734506-8	7-1734506-4	9-1734506-8	
40*	40.0 [1.575]	38.0 [1.496]	_	4-1734506-9	_	9-1734506-9	

^{*}Keying position 6.

Note: All part numbers are RoHS compliant.

Catalog 1307819 Revised 8-08

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

2mm Receptacle, Double Row, Surface Mount, Right-Angle Mount

Receptacle, Surface Mount, Right-Angle

Material and Finish

Housing — Black Thermoplastic, UL 94V-0 Rated

Contact — Phosphor Bronze

Contact Finish — 0.00020 [.000008] Min. Gold Plated on Contact Area, 0.00229 [.000090] Min. Tin Plated on Solder Tail, 0.00127 [.000050] Min. Nickel Underplated Over All

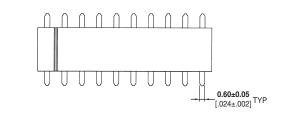
Related Product Data

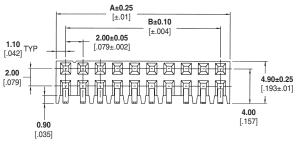
Mateable Headers — pages 66-73

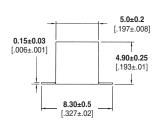
Product Specification

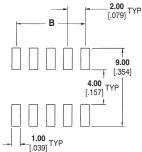
108-57197

Packaging Method — Tape and reel









Recommended PCB Layout

Position	Dimer	Part Numbers	
rosition	Α	В	rait Numbers
6	6.20 [.244]	4.0 [.157]	1734606-6
8	8.20 [.323]	6.0 [.236]	1734606-8
10	10.20 [.402]	8.0 [.315]	1-1734606-0
12	12.20 [.480]	10.0 [.394]	1-1734606-2
14	14.20 [.559]	12.0 [.472]	1-1734606-4
16	16.20 [.638]	14.0 [.551]	1-1734606-6
18	18.20 [.717]	16.0 [.630]	1-1734606-8
20	20.20 [.795]	18.0 [.709]	2-1734606-0
22	22.20 [.874]	20.0 [.787]	2-1734606-2
24	24.20 [.953]	22.0 [.866]	2-1734606-4
26	26.20 [1.031]	24.0 [.945]	2-1734606-6
28	28.20 [1.110]	26.0 [1.024]	2-1734606-8
30	30.20 [1.189]	28.0 [1.102]	3-1734606-0
32	32.20 [1.268]	30.0 [1.181]	3-1734606-2
34	34.20 [1.346]	32.0 [1.260]	3-1734606-4
36	36.20 [1.425]	34.0 [1.339]	3-1734606-6
38	38.20 [1.504]	36.0 [1.417]	3-1734606-8
40	40.20 [1.583]	38.0 [1.496]	4-1734606-0
42	42.20 [1.661]	40.0 [1.575]	4-1734606-2
44	44.20 [1.740]	42.0 [1.654]	4-1734606-4
46	46.20 [1.819]	44.0 [1.732]	4-1734606-6
48	48.20 [1.898]	46.0 [1.811]	4-1734606-8
50	50.20 [1.976]	48.0 [1.890]	5-1734606-0

Note: All part numbers are RoHS compliant.

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

METRIC Dimensions are

millimeters over inches



2mm Receptacle, Double Row, Thru-Hole, Right-Angle Mount

Receptacle, Thru-Hole, Right-Angle

Material and Finish

Housing — Black Thermoplastic, UL 94V-0 Rated

Contact — Phosphor Bronze

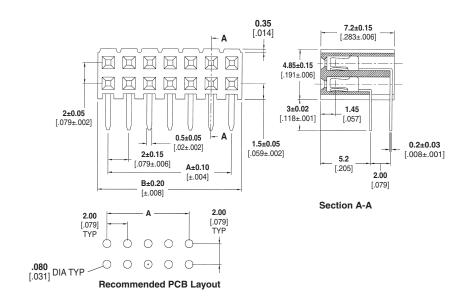
Contact Finish — 0.00020 [.000008] Min. Gold Plated on Contact Area, 0.00254 [.000100] Min. Tin Plated on Solder Tail, 0.00127 [.000050] Min. Nickel Underplated Over All

Related Product Data

Mateable Headers — pages 66-73

Product Specification 108-57197

Packaging Method — Tube



Position	Dim	Part Numbers	
rosition	Α	В	rait Numbers
8	6.0 [.236]	8.50 [.335]	1734531-8
10	8.0 [.315]	10.50 [.413]	1-1734531-0
12	10.0 [.394]	12.50 [.492]	1-1734531-2
14	12.0 [.472]	14.50 [.571]	1-1734531-4
16	14.0 [.551]	16.50 [.650]	1-1734531-6
18	16.0 [.630]	18.50 [.728]	1-1734531-8
20	18.0 [.709]	20.50 [.807]	2-1734531-0
22	20.0 [.787]	22.50 [.886]	2-1734531-2
24	22.0 [.866]	24.50 [.965]	2-1734531-4
26	24.0 [.945]	26.50 [1.043]	2-1734531-6
28	26.0 [1.024]	28.50 [1.122]	2-1734531-8
30	28.0 [1.102]	30.50 [1.201]	3-1734531-0
32	30.0 [1.181]	32.50 [1.280]	3-1734531-2
34	32.0 [1.260]	34.50 [1.358]	3-1734531-4
36	34.0 [1.339]	36.50 [1.437]	3-1734531-6
38	36.0 [1.417]	38.50 [1.516]	3-1734531-8
40	38.0 [1.496]	40.50 [1.594]	4-1734531-0
42	40.0 [1.575]	42.50 [1.673]	4-1734531-2
44	42.0 [1.654]	44.50 [1.752]	4-1734531-4
46	44.0 [1.732]	46.50 [1.831]	4-1734531-6
48	46.0 [1.811]	48.50 [1.909]	4-1734531-8
50	48.0 [1.890]	50.50 [1.988]	5-1734531-0
52	50.0 [1.969]	52.50 [2.067]	5-1734531-2
54	52.0 [2.047]	54.50 [2.146]	5-1734531-4
56	54.0 [2.123]	56.50 [2.224]	5-1734531-6
58	56.0 [2.205]	58.50 [2.303]	5-1734531-8
60	58.0 [2.283]	60.50 [2.381]	6-1734531-0
62	60.0 [2.362]	62.50 [2.461]	6-1734531-2
64	62.0 [2.441]	64.50 [2.539]	6-1734531-4
66	64.0 [2.520]	66.50 [2.618]	6-1734531-6
68	66.0 [2.598]	68.50 [2.697]	6-1734531-8
70	68.0 [2.677]	70.50 [2.776]	7-1734531-0
72	70.0 [2.756]	72.50 [2.854]	7-1734531-2
74	72.0 [2.834]	74.50 [2.933]	7-1734531-4
76	74.0 [2.913]	76.50 [3.012]	7-1734531-6
78	76.0 [2.992]	78.50 [3.091]	7-1734531-8
80	78.0 [3.071]	80.50 [3.169]	8-1734531-0

Note: All part numbers are RoHS compliant.

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2mm Receptacle, Double Row, Surface Mount, Vertical Mount

Receptacle, Top Entry, Surface Mount

Material and Finish

Housing—Black Thermoplastic, UL 94V-0 Rated

Contact—Copper Alloy, plated 0.00076 [.000030] Min. Gold Plated on Contact Area, 0.00254 [.000100] Tin Plated on Solder Tail, Underplated 0.00127 [.000050] Nickel

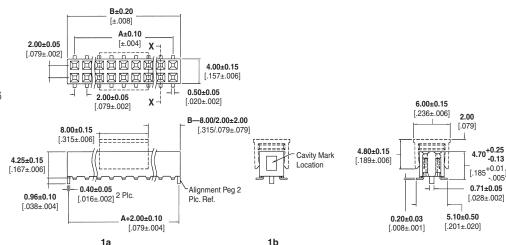
Cap—Thermoplastic

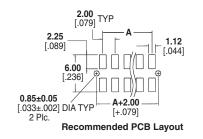
Related Product Data

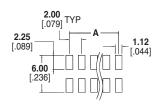
Mateable Headers—pages 66-75, 78, 79

Product Specification 108-57227

Packaging Method—Tape and reel







Recommended PCB Layout (Without Alignment Peg)

Position	Dime	nsions	245C Reflov	v Part Numbers	265C Reflow Part Numbers	
	Α	В	with Alignment Peg*	without Alignment Peg	with Alignment Peg*	without Alignment Peg
8	6.0 [.236]	8.40 [.331]	1734516-8	5-1734516-8	2041069-8	5-2041069-8
10	8.0 [.315]	10.40 [.409]	1-1734516-0	6-1734516-0	1-2041069-0	6-2041069-0
12	10.0 [.394]	12.40 [.488]	1-1734516-2	6-1734516-2	1-2041069-2	6-2041069-2
14	12.0 [.472]	14.40 [.567]	1-1734516-4	6-1734516-4	1-2041069-4	6-2041069-4
16	14.0 [.551]	16.40 [.646]	1-1734516-6	6-1734516-6	1-2041069-6	6-2041069-6
18	16.0 [.630]	18.40 [.724]	1-1734516-8	6-1734516-8	1-2041069-8	6-2041069-8
20	18.0 [.709]	20.40 [.803]	2-1734516-0	7-1734516-0	2-2041069-0	7-2041069-0
22	20.0 [.787]	22.40 [.881]	2-1734516-2	7-1734516-2	2-2041069-2	7-2041069-2
24	22.0 [.866]	24.40 [.961]	2-1734516-4	7-1734516-4	2-2041069-4	7-2041069-4
26	24.0 [.945]	26.40 [1.039]	2-1734516-6	7-1734516-6	2-2041069-6	7-2041069-6
28	26.0 [1.024]	28.40 [1.118]	2-1734516-8	7-1734516-8	2-2041069-8	7-2041069-8
30	28.0 [1.102]	30.40 [1.197]	3-1734516-0	8-1734516-0	3-2041069-0	8-2041069-0
32	30.0 [1.181]	32.40 [1.276]	3-1734516-2	8-1734516-2	3-2041069-2	8-2041069-2
34	32.0 [1.260]	34.40 [1.354]	3-1734516-4	8-1734516-4	3-2041069-4	8-2041069-4
36	34.0 [1.339]	36.40 [1.433]	3-1734516-6	8-1734516-6	3-2041069-6	8-2041069-6
38	36.0 [1.417]	38.40 [1.512]	3-1734516-8	8-1734516-8	3-2041069-8	8-2041069-7
40	38.0 [1.496]	40.40 [1.591]	4-1734516-0	9-1734516-0	4-2041069-0	9-2041069-0

*See views 1a and 1b