Microminiature Rectangular Connectors with MICRO-Pin Contacts on .050 (1.27) centers.

MICRO-D microminiature rack/panel connectors are used in applications requiring highly reliable, extremely small, lightweight connectors. These connectors are available in 2 insulator materials, 2 mounting variations, 7 shell sizes accommodating from 9 to 51 contacts and a special arrangement of 5 micro contacts and 2 coaxials. The insulator materials listed give the MICRO-D connector wide versatility in most applications required by industry.

Specifications

ITT can also terminate a wide variety of stranded or solid wire directly to MICRO-D contacts, which is often desirable in high density arrangements.

MICRO-D connectors can also be custom harnessed to meet any customer requirement of single or multiple connectors. Pigtail lead and harness description must be given by the customer. A typical description would be: .5" #25 AWG, gold plated copper leads or 18" of #26 yellow, Teflon-insulated, Type E wire. Shown below are various methods of termination. Consult customer service for any routine or complex harnessing of MICRO-D connectors. Glass-filled diallyl phthalate thermoset material used in high temperature applications that is immune to cleaning solvents. It also has excellent dielectric properties. Temperature range: -65°F to +300°F (-55°C to +149°C).

MD**

 Glass-filled polyester thermoplastic that is not affected by cleaning solvents and exhibits excellent dielectric properties. Temperature range: -55°F to +257°F (-65°C to +125°C).

MATERIALS AND FINISHES Shell/Insulator (One Piece) MD/MDB: Glass-filled thermoset plastic MDV/MDVB: Thermoplastic Contacts - Copper alloy, gold plate

ELECTRICAL DATA

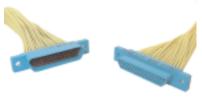
No of Contacts	- 9 to 51: (1 arrangement of 5 contacts and 2 coaxials - for screw mount only)
Coaxial Cable	- RG-178/U (Not available for MD clip mount)
Wire Size	- #24 thru #32 AWG
Contact Termination	- Multi-indent crimp

MECHANICAL FEATURES

Size or Length	- 7 sizes
Coupling	- Friction/jackscrews
Polarization	- Keystone-shaped shells
Contact Spacing Centers	050 (1.27mm)
Shell Styles	- Plug and receptacle
Consult factory for a	0

How to Order

PCB ordering information - page 30



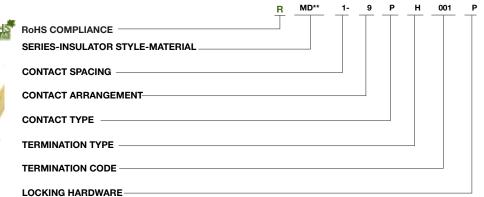
SERIES-INSULATOR STYLE-MATERIAL

MDB - Screw mounting-Diallyl phthalate MDVB - Screw mounting-Polyester

CONTACT SPACING 1 - .050 (1.27) centers

CONTACT ARRANGEMENT 9-15-21-25-31-37-51. See page 9

P - Pin S - Socket



TERMINATION TYPE

- H Insulated solid or stranded wire
- L Uninsulated solid wire
- S Solder pot to accept #26 AWG max.

harness wire.

TERMINATION CODE

- See page 79 and 81 for additional codes
- (H) 001 18", 7/34 strand, #26 AWG,
- MIL-W-16878/4, Type E Teflon, Yellow.
- (H) 003 18", 7/34 strand, #26 AWG,
 - MIL-W-16878/4, Type E Teflon, color
 - coded to MIL-STD-681 System I.
- (L) 1 1/2" uninsulated solid #25 AWG gold plated copper.
- (L) 2 1" uninsulated solid #25 AWG gold plated copper.

LOCKING HARDWARE (SCREW MOUNTING ONLY)

- P Jackpost
- K Jackscrew-standard
- L Jackscrew-low profile
- F Float mount
- M Military specification hardware, see page 13.

No designator - No hardware - standard mounting .091 (2.31) hole diameter

Dimensions shown in inch (mm) Specifications and dimensions subject to change

Standard Wire Termination Codes

The following termination codes are listed for your information. For additional codes please refer to Appendix on page 79 and 81. All wire lengths are minimum.

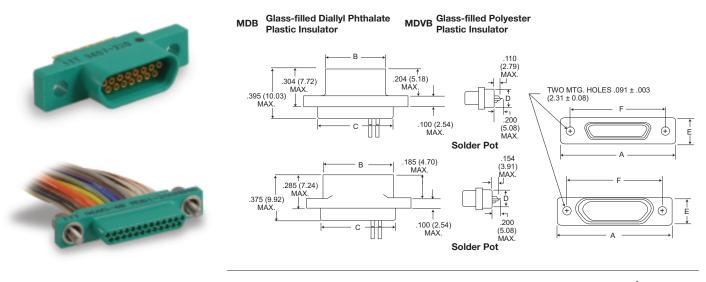
Harness Type (H)

#26 AWG per MIL-W-16878 Type E Teflon, stranded.								
Length	All Yellow	Color Coded*						
3 (76.2)	H020	H027						
6 (152.4)	H019	H016						
8 (203.2)	H026	H034						
10 (254.0)	H029	H025						
12 (304.8)	H028	H002						
18 (457.2)	H001	H003						
20 (508.0)	H038	H023						
24 (609.6)	H009	H004						
30 (762.0)	H010	H005						
36 (914.4)	H011	H006						
48 (1219.2)	H013	H048						
72 (1828.8)	H017	H046						
120 (3048.0)	H042	H041						
*Cavity #1 black								

Solid Uninsulated Type (L)

#25 AWG Gold Plated Copper	
Termination Code	Length
L61	.125 (3.18)
L56	.150 (3.81)
L57	.190 (4.83)
L39	.250 (6.35)
L58	.375 (9.52)
L1	.500 (12.70)
L14	.750 (19.05)
L2	1.000 (25.40)
L7	1.500 (38.10)
L6	2.000 (50.80)
L16	2.500 (63.50)
L10	3.000 (76.20)

With Screw Mounting Holes (Conforms to MIL-DTL-83513)



Part Number b	y Shell Size	A Max.	B Max.	C Max.	D Max.	E Max.	F ±.005	Avg. Weight*** ±5% (oz.) ±5% (gm.)
MDB1-9P**	MDVB1-9P**	.788 (20.02)	.292 (7.42)	.408 (10.36)	.173 (4.39)	.218 (5.54)	.565 (14.35)	.026 (0.73)
MDB1-9S**	MDVB1-9S**	.788 (20.02)	.380 (9.65)	.408 (10.36)	.173 (4.39)	.218 (5.54)	.565 (14.35)	.025 (0.70)
MDB1-15P**	MDVB1-15p**	.938 (23.82)	.442 (11.23)	.588 (14.17)	.173 (4.39)	.218 (5.54)	.715 (18.16)	.038 (1.10)
MDB1-15S**	MDVB1-15S**	.938 (23.82)	.530 (13.46)	.588 (14.17)	.173 (4.39)	.218 (5.54)	.715 (18.16)	.035 (1.00)
MDB1-21P**	MDVB1-21P**	1.088 (27.64)	.592 (15.04)	.708 (17.98)	.173 (4.39)	.218 (5.54)	.865 (21.97)	.053 (1.50)
MDB1-21S**	MDVB1-21S**	1.088 (27.64)	.680 (17.27)	.708 (17.98)	.173 (4.39)	.218 (5.54)	.865 (21.97)	.050 (1.40)
MDB1-25P**	MDVB1-25P**	1.188 (30.18)	.692 (17.58)	.808 (20.56)	.173 (4.39)	.218 (5.54)	.965 (24.51)	.063 (1.80)
MDB1-25S**	MDVB1-25S**	1.188 (30.18)	.780 (19.81)	.808 (20.56)	.173 (4.39)	.218 (5.54)	.965 (24.51)	.056 (1.60)
MDB1-31P**	MDVB1-31P**	1.338 (33.98)	.842 (21.39)	.958 (24.33)	.173 (4.39)	.218 (5.54)	1.115 (28.32)	.080 (2.30)
MDB1-31S**	MDVB1-31S**	1.338 (33.98)	.930 (23.62)	.958 (24.33)	.173 (4.39)	.218 (5.54)	1.115 (38.32)	.073 (2.10)
MDB1-37P**	MDVB1-37P**	1.488 (37.80)	.992 (25.20)	1.108 (28.14)	.173 (4.39)	.218 (5.54)	1.265 (32.13)	.086 (2.45)
MDB1-37S**	MDVB1-37S**	1.488 (37.80)	1.080 (27.43)	1.108 (28.14)	.173 (4.39)	.218 (5.54)	1.265 (32.13)	.076 (2.15)
MDB1-51P**	MDVB1-51P**	1.438 (36.52)	.942 (23.93)	1.058 (26.87)	.220 (5.59)	.260 (6.60)	1.215 (30.86)	.109 (3.10)
MDB1-51S**	MDVB1-51S**	1.438 (36.52)	1.030 (26.16)	1.058 (26.87)	.220 (5.59)	.260 (6.60)	1.215 (30.86)	.093 (2.64)
** ^		B						

** Add lead type and length, see Part Number Explanation.
*** Weight given is with 1/2", uninsulated solid #25 AWG gold plated copper pigtails.

Dimensions shown in inch (mm) Specifications and dimensions subject to change



Downloaded from Arrow.com.

MD*B-PCB

MD*B-PCB connectors use standard MD*B all plastic shells and are designed for use with flex circuitry, printed circuit and multi-layer boards. They are easily mounted and soldered and provide high density/high reliability in board-to-board and board-to-cable applications. While being similar to the MDM-PCB connectors, the MD*B-PCB connectors are all plastic, extremely small, and lightweight yet rugged enough for use in the most demanding applications.

MD*B-PCB connectors are available in seven shell sizes with 9 to 51 contacts in the popular 90° narrow profile PCB termination, with a variety of tail lengths for varying board thickness.

Ro

Jackpost mounting for use with locking hardware is also available.

If the connectors shown in the catalog do not meet the requirements of your applications, a special shape, size or layout using the basic all plastic shell can be made available. For further technical and applications information, contact customer service.



How to Order

	$\frac{R}{R} = \frac{MD^*B}{R} - \frac{37}{2} \times \frac{CBR}{R} \times \frac{L39}{R} - \frac{***}{R}$
SERIES	
CONTACT ARRANGEMENT	
HARDWARE	
TERMINATION TAIL LENGTH	
MODIFICATION CODES (Consult Factory)	
CONNECTOR SERIES	HARDWARE
MDVB, MDB	P = Jackpost
CONNECTOR ARRANGEMENT	M7 = Jackposts, M635135-07
9, 15, 21, 25, 31, 51	No Letter = Less Hardware
CONTACT TYPE	TERMINATION TAIL LENGTH CODES
S = Socket	NONE109 (2.77) ± 0.15 (0.38) Standard
P = Pin	L61 – .125 (3.18)
	L66 – .150 (3.81)
TERMINATION TYPE	L57 – .190 (4.83)
CBR = 90° Narrow Profile PCB Terminations	L39 – .250 (6.35)

L58

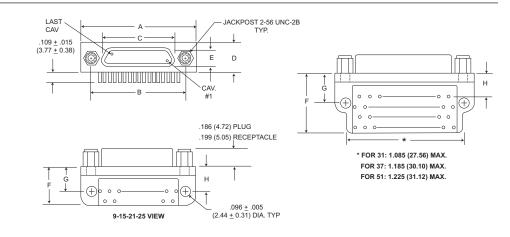
- .375 (9.52)



Dimensions shown in inch (mm) Specifications and dimensions subject to change

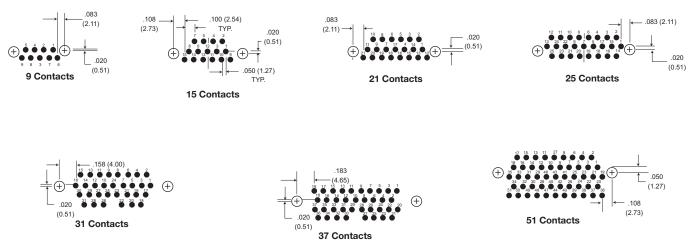
www.ittcannon.com

CBR Series (90° Mounting Narrow Profile)



PCB Termination Arrangements (Viewed from bottom of connector, on PCB solder side.)

Indentification number shown for plug connector, use reverse order for socket connector.



All Termination Configurations .100 (2.54) x .100 (2.54) Grid Pattern, Offset .050 (1.27)

Part Number By Shell Size	A Max.	B ± .005 (0.13)	C Max.	D Max.	E Max.	F Max.	G ± .010 (0.25)	H ± .010 (0.25)
MD*B-9PCBR*	.788 (20.01)	.565 (14.35)	.292 (7.42)	.218 (5.54)	.134 (3.40)	.420 (10.67)	.250 (6.35)	.230 (5.84)
MD*B-9SCBR*	.788 (20.01)	.565 (14.35)	.375 (9.52)	.218 (5.54)	.218 (5.54)	.420 (10.67)	.250 (6.35)	.230 (5.84)
MD*B-15PCBR*	.938 (23.82)	.715 (18.16)	.442 (11.23)	.218 (5.54)	.134 (3.40)	.420 (10.67)	.250 (6.35)	.130 (3.30)
MD*B-15SCBR*	.938 (23.82)	.715 (18.16)	.525 (13.34)	.218 (5.54)	.218 (5.54)	.420 (10.67)	.250 (6.35)	.130 (3.30)
MD*B-21PCBR*	1.088 (27.63)	.865 (21.97)	.592 (15.04)	.218 (5.54)	.134 (3.40)	.420 (10.67)	.250 (6.35)	.130 (3.30)
MD*B-21SCBR*	1.088 (27.63)	.865 (21.97)	.675 (17.14)	.218 (5.54)	.218 (5.54)	.420 (10.67)	.250 (6.35)	.130 (3.30)
MD*B-25PCBR*	1.188 (30.17)	.965 (24.51)	.692 (17.58)	.218 (5.54)	.134 (3.40)	.420 (10.67)	.250 (6.35)	.130 (3.30)
MD*B-25SCBR*	1.188 (30.17)	.965 (24.51)	.775 (19.68)	.218 (5.54)	.218 (5.54)	.420 (10.67)	.250 (6.35)	.130 (3.30)
MD*B-31PCBR*	1.338 (33.98)	1.115 (28.32)	.842 (21.39)	.218 (5.54)	.134 (3.40)	.420 (10.67)	.250 (6.35)	.130 (3.30)
MD*B-31SCBR*	1.338 (33.98)	1.115 (28.32)	.925 (23.50)	.218 (5.54)	.218 (5.54)	.420 (10.67)	.250 (6.35)	.130 (3.30)
MD*B-37PCBR*	1.488 (37.79)	1.265 (32.13)	.994 (25.25)	.218 (5.54)	.134 (3.40)	.520 (13.21)	.250 (6.35)	.130 (3.30)
MD*B-37SCBR	1.488 (37.79)	1.265 (32.13)	1.075 (27.30)	.218 (5.54)	.218 (5.54)	.520 (13.21)	.250 (6.35)	.130 (3.30)
MD*B-51PCBR*	1.438 (36.52)	1.215 (30.86)	.942 (23.93)	.258 (6.55)	.177 (4.50)	.550 (13.97)	.300 (7.62)	.150 (3.81)
MD*B-51SCBR	1.438 (36.52)	1.215 (30.86)	1.026 (26.06)	.258 (6.55)	.258 (6.55)	.550 (13.97)	.300 (7.62)	.150 (3.81)

* For jackpost locking add letter "P" or "M7".

NOTE: Standard lead termination is #24 AWG, solid copper, solder or tin dipped.

Dimensions shown in inch (mm) Specifications and dimensions subject to change

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MDB Coaxial Series with Screw Mounting Holes

MDB connectors with two coaxial and five MICRO-PIN™/MICROSOCKET™ contacts. Crimp-type coaxial contacts accommodate RG-178/U cables. A plastic insertion/extraction tool is supplied with each connector assembly having removable coaxial assembly.





How to Order - MDB Coaxial

	MODIFICATION	
SERIES Micro-D Coaxial SIGNAL CONTACT SPACING 1050 (1.27) centers TOTAL CONTACT CAVITIES	COAXIAL TYPE No Letter - Coaxial assembly installed and nonremovable RO - coaxial assembly ordered serparately RA - Coaxial shipped assembled but uninstalled SIGNAL CONTACT TYPE P - Pin S - Socket SIGNAL CONTACT LEAD TYPE L - Uninsulated, solid wire H - Insulated, solid or stranded	SIGNAL CONTACT LEAD LENGTH See Standard Wire Termination Code on page 29. Coaxial cable will be RG-178U unless otherwise specified; length will be same as wire modification. MODIFICATION Consult customer service HARDWARE No letter - No hardware standard mounting. 091 (2.31) hole diameter F - Float K - Jackscrew (standard) L - Jackscrew (low profile)

S -Solder pot*

- P Jackpost
- * Not available with removalbe coax cable type connectors RO and RA.

How to Order - Coaxial Cable Assemblies

		R	2	MD	CC	S	*	* * *
Rolls	RoHS COMPLIANCE							
	SERIES							
	COAXIAL CABLE TYPE							
	COAXIAL CABLE LENGTH							
	CONTACT TYPE	COAXIAL CA	BLE	LENG	TH			
	P - Pin	See Standa	ard \	Wire Te	erminati	on		
	(used with socket side connection)	Codes of	on p	age 29	. Coaxia	al cab	le will	be

- S Socket
 - (used with pin type connection)

COAXIAL CABLE TYPE

1 - RG178/U

RG-178U unless otherwise specified; length will be the same as wire modfication.

Dimensions shown in inch (mm)

SERIES MD

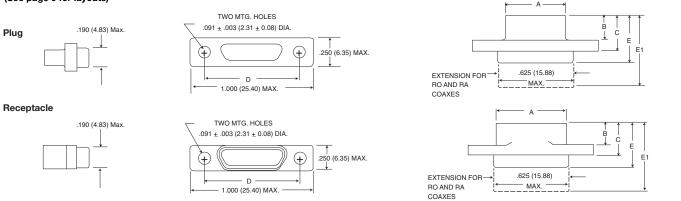
СС

COAXIAL CABLE

Т

Dimension - MDB Coaxial Series

(See page 9 for layouts)



Part Number by Shell Size	A Max.	B Max.	C Max.	D ± .005 (0.13)	E Max.	E1 Max.	Avg. Weight** (oz) <u>+</u> 5% (gm.) <u>+</u> 5%
MDB1-7C2P*	.510 (12.95)	.204 (5.18)	.298 (7.57)	.782 (19.86)	.395 (10.03)	.510 (12.95)	.290 (8.30)
MDB1-7C2S*	.602 (15.29)	.185 (4.70)	.279 (7.09)	.782 (19.86)	.375 (9.52)	.540 (13.72)	.273 (7.80)

* Add lead type and length, see Part Number Explanation. ** Weight given is with 7 inch (177.80) insulated leads, #26 AWG silver plated copper pigtails and RG178/U coaxials.

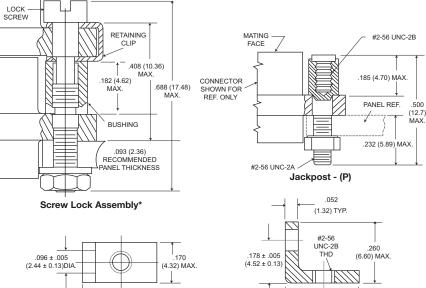
Dimensions shown in inch (mm) Specifications and dimensions subject to change

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Mounting Hardware Views (Sizes 9-51)

This hardware supplied unassembled.





90° Angle Mounting Bracket

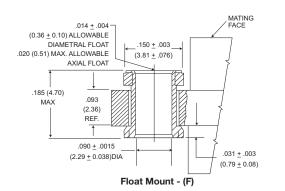
*NOTE: Torque value is 4.0 in/lbs max.

		A	В
Description	Part Number	± .005 (0.13)	Max.
Screw Lock Assembly	322-9500-000		
Jackpost Kit	320-9505-000		
Mounting Bracket, 90° Angle-			
MD*1	015-9516-000	.100	.215
for 9 thru 37 Shell Sizes		(2.54)	(5.46)
MD*1	015-9516-000	.122	.257
for 51 Shell Size		(3.10)	(6.53)

90° Angle Mounting Bracket

NOTES: Screw lock assembly (322-9500-000) can be used for front front mounting. Jackpost kit (320-9505-000) consists of 2 assemblies, shipped unassembled.

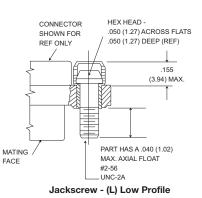
This hardware is factory installed.



Shown here is a cutaway view of the float mount for the MD connector.

The basic shell dimensions are the same for the float mount and the screw mounting hole configurations. View shown is for standard float mount front panel mounting. Reverse mounting is available on request.

CONNECTOR SHOWN FOR REF. ONLY .490 (12.45) MAX PART HAS A .040 (1.02) #2-56 MATING UNC-2A MAX AXIAL FLOAT FACE Jackscrew - (K) Standard



B

* NOTE: Torque values are as follows: Low Profile Jackscrew (L)-2.5 in/lbs Standard Jackscrew (K)-2.5 in/lbs

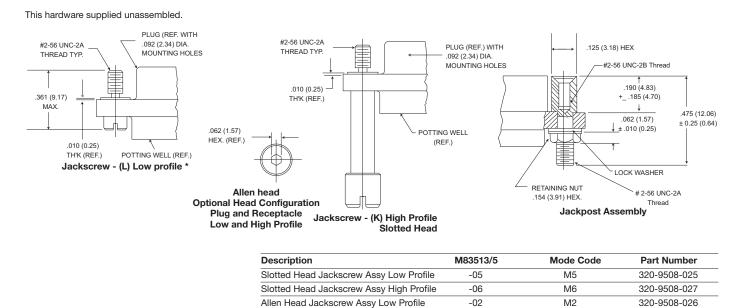
ТΤ

Dimensions shown in inch (mm) Specifications and dimensions subject to change

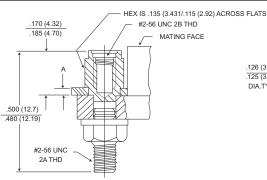
MD

.500

Mounting Hardware to Military Specification (Sizes 9 - 51) PER MIL-DTL-83513/5



Jackpost Bushing	(For	Rear	Panel	Mountina)
ouonpoor Duoning	10 1	noui	i unoi	mounting)



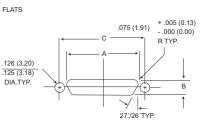
Allen Head Jackscrew Assy High Profile

Jackpost Assy

-03

-07

Panel hickness	A Dim.	Jackpost Kit Number*
3/32 (2.4)	.092/.087 (2.34/2.21)	320-9505-007
/16 (1.6)	.061/.056 (2.34/1.42)	320-9505-006
3/64 (1.2)	.047/.042 (1.19/1.07)	320-9505-005
(0.0. (0. 0)	000 (005 (0 70 (0 0 1)	000 0505 004



320-9508-028

320-9505-033

MD

Panel Thickness	A Dim.	Jackpost Kit Number*
3/32 (2.4)	.092/.087 (2.34/2.21)	320-9505-007
1/16 (1.6)	.061/.056 (2.34/1.42)	320-9505-006
3/64 (1.2)	.047/.042 (1.19/1.07)	320-9505-005
1/32 (0.8)	.030/.025 (0.76/0.64)	320-9505-004

*2 Jackposts, 2 nuts, 2 washers.

NOTE: Torque value for jackpost 2.5 in/lbs

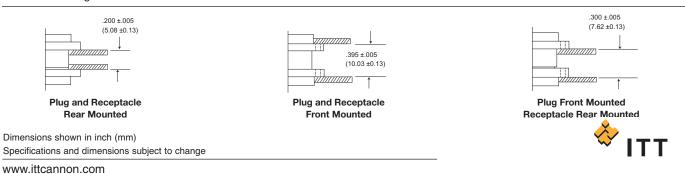
Plug and Receptacle Dimensions

M3

M7

	А	в	с
Shell Size	+.004 (0.10) 000 (0.00)	+.004 (0.10) 000 (0.00)	±.005 (0.13)
9	.379 (9.63)	.219 (5.56)	.565 (14.35)
15	.529 (13.44)	.219 (5.56)	.715 (18.16)
21	.679 (17.25)	.219 (5.56)	.865 (21.97)
25	.779 (19.79)	.219 (5.56)	.965 (24.51)
31	.929 (23.60)	.219 (5.56)	1.115 (28.32)
37	1.079 (27.41)	.219 (5.56)	1.265 (32.13)
51	1.029 (26.14)	.261 (6.63)	1.215 (30.86)

Panel Mounting Dimensions



Panel Cutouts

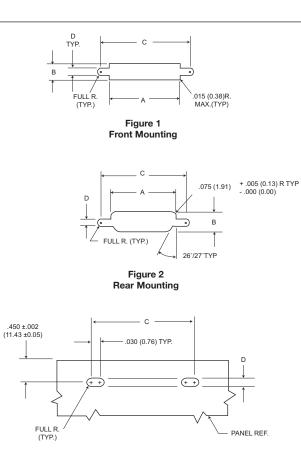


Figure 3 **Edgeboard Mounting**

Size	Cutout Figure	A + .004 (0.10) 000 (0.00)	B + .004 (0.10) 000 (0.00)	C + .005 (0.13) 000 (0.00)	D + .005 (0.13) 000 (0.00)
	1	.409 (10.39)	.172 (4.37)	.570 (14.48)	.089 (2.26)
9	2	.379 (9.63)	.219 (5.56)	.570 (14.48)	.089 (2.26)
	3	-	-	.570 (14.48)	.089 (2.26)
	1	.559 (14.20)	.172 (4.37)	.720 (18.29)	.089 (2.26)
15	2	.529 (13.44)	.219 (5.56)	.720 (18.29)	.089 (2.26)
	3	-	-	.720 (18.29)	.089 (2.26)
	1	.709 (18.00)	.172 (4.37)	.870 (22.10)	.089 (2.26)
21	2	.679 (17.25)	.219 (5.56)	.870 (22.10)	.089 (2.26)
	3	-	-	.870 (22.10)	.089 (2.26)
	1	.809 (20.55)	.172 (4.37)	.970 (24.64)	.089 (2.26)
25	2	.779 (19.79)	.219 (5.56)	.970 (24.64)	.089 (2.26)
	3	-	-	.970 (24.64)	.089 (2.26)
	1	.959 (24.36)	.172 (4.37)	1.120 (28.45)	.089 (2.26)
31	2	.929 (23.60)	.219 (5.56)	1.120 (28.45)	.089 (2.26)
	3	-	-	1.120 (28.45)	.089 (2.26)
	1	1.109 (28.17)	.172 (4.37)	1.270 (32.26)	.089 (2.26)
37	2	1.079 (27.41)	.219 (5.56)	1.270 (32.26)	.089 (2.26)
	3	-	-	1.270 (32.26)	.089 (2.26)
	1	1.059 (26.90)	.215 (5.46)	1.220 (30.99)	.089 (2.26)
51	2	1.029 (26.14)	.261 (6.63)	1.220 (30.99)	.089 (2.26)
	3	-	-	1.220 (30.99)	.089 (2.26)

NOTES:

1.

2.

Front mounting (figure 1) and rear mounting (figure 2) accommodates #2-56 screws. Front mounting is preferred. However, when rear mounting is necessary. use detail on previous page. Edgeboard mounting bracket (figure3) uses #2-56 screws. Dimension .450 ± .002 (11.43 ± 0.05) locates the 3. MD receptacle flush with the end of the board.



How to Order		
PCB ordering information - page 30	RoHS COMPLIANCE SERIES-INSULATOR STYLE-MATERIAL CONTACT SPACING CONTACT ARRANGEMENT CONTACT TYPE TERMINATION TYPE TERMINATION CODE	R MD 1- 9 P H 001 P
SERIES-INSULATOR STYLE-MATERIAL MD - Clip mounting -Diallyl phthalate MDV - Clip mounting-Polyester CONTACT SPACING 1050 (1.27) centers	LOCKING HARDWARE CONTACT ARRANGEMENT 9-15-21-25-31*-37-51. See page 7 CONTACT TYPE P - Pin S - Socket TERMINATION TYPE H - Insulated solid or stranded wire L - Uninsulated solid or stranded wire S - Solder pot to accept #26 AWG max. harness wire.	 TERMINATION CODE** (H) 001 - 18", 7/34 strand, #26 AWG, MIL-W-16878/4, Type E Teflon, Yellow. (H) 003 - 18", 7/34 strand, #26 AWG, MIL-W-16878/4, Type E Teflon, color coded to MIL-STD-681 System I. (L) 1 - 1/2" uninsulated solid #25 AWG gold plated copper. (L) 2 - 1" uninsulated solid #25 AWG gold plated copper. No designator - No hardware - standard mounting .091 (2.31) hole diameter * Not available in clip mounting. ** See page 79 and 81 for additional codes.
With Clip Mounting Slots		
Plug	MD Glass-filled Diallyl Phthalate MDV Plastic Insulator MDV	y Glass-filled Polyester Plastic Insulator
Receptacle	.093 ± .005 (2.36 ± 0.13)	→ → → → → → → → → → → → → → → → → → →

Part Number b	y Shell Size	A Max.	B Max.	C Max.	D Max.	E Max.	Avg. Weight*** ±5% (oz.)/±5% (gm.)
MD1-9P**	MDV1-9-P**	.512 (13.00)	.292 (7.42)	.405 (10.29)	.170 (4.32)	.215 (5.46)	.026 (0.73)
MD1-9S**	MDV1-9S**	.512 (13.00)	.376 (9.55)	.405 (10.29)	.170 (4.32)	.215 (5.46)	.026 (0.73)
MD1-15P**	MDV1-15P**	.662 (16.81)	.442 (11.23)	.555 (14.10)	.170 (4.32)	.215 (5.46)	.038 (1.10)
MD1-15S**	MDV1-15S**	.662 (16.81)	.526 (13.36)	.555 (14.10)	.170 (4.32)	.215 (5.46)	.035 (1.00)
MD1-21P**	MDV1-21P**	.812 (20.62)	.592 (15.04)	.705 (17.91)	.170 (4.32)	.215 (5.46)	.053 (1.50)
MD1-21S**	MDV1-21S**	.812 (20.62)	.676 (17.17)	.705 (17.91)	.170 (4.32)	.215 (5.46)	.050 (1.40)
MD1-25P**	MDV1-25P**	.912 (23.16)	.692 (17.58)	.805 (20.45)	.170 (4.32)	.215 (5.46)	.063 (1.80)
MD1-25S**	MDV1-25S**	.912 (23.16)	.776 (19.71)	.805 (20.45)	.170 (4.32)	.215 (5.46)	.056 (1.60)
MD1-37P**	MDV1-37P**	1.212 (30.78)	.992 (25.20)	1.105 (28.07)	.170 (4.32)	.215 (5.46)	.086 (2.45)
MD1-37S**	MDV1-37S**	1.212 (30.78)	1.076 (27.33)	1.105 (28.07)	.170 (4.32)	.215 (5.46)	.076 (2.15)
MD1-51P**	MDV1-51P**	1.162 (29.51)	.942 (23.93)	1.055 (26.80)	.213 (5.41)	.258 (6.55)	.109 (3.10)
MD1-51S**	MDV1-51S**	1.162 (29.51)	1.026 (26.06)	1.055 (26.80)	.213 (5.41)	.258 (6.55)	.093 (2.65)

Add lead type and length, see Part Number Explanation. Weight given is with 1/2", uninsulated solid #25 AWG gold plated copper pigtails.

Dimensions shown in inch (mm)

Specifications and dimensions subject to change

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Panel Mounting Hardware

Clip Mounting

Illustrated is the recommended method of front mounting with metal panel mounting keys. Panel mounting keys are available with or without coupling retention clips.

For front mounting, place the rear of the connector thru the panel cutout. With the mounting flange against the panel, fully insert the panel mounting keys thru the slots in the flange and thru the panel cutout. Retaining the keys in this position, bend them outward against the rear of the panel. When mating a front mounted connector with an unmounted connector, a coupling retention clip assembly may be used to securely lock the two together. Mounting screw brackets are available and may be used instead of the panel mounting keys.

Description	Part Number
Panel Mounting Key	201-9100-000
Mounting Key and Coupling Clip Assembly	294-9100-000
Mounting Screw Bracket	015-9100-000
* Edgeboard Mounting Bracket	015-5009-000

** Edgeboard Mounting Bracket and

Coupling Clip Assembly MD51428-1
* Must be ordered separately; specify left and right hand for complete
assembly.

** Must be ordered separately; assembly contains set of left and right hand types.

Dimensions (Clip Mounting Only)

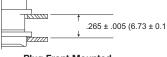


Coupling Retention Clip

(see Figure 2)

Edgeboard Mounted

(see Figure 4)



D

Plug Front Mounted Receptacle Rear Mounted

С

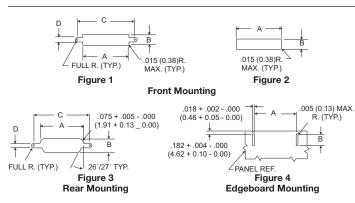
Mounting Screw Brackets

(see Figures 1 and 3)

Panel

Mounting Key

Panel Cutouts



 A panel thickness of 1/8" (3.17mm) maximum is recommended for ease of tab bending when a panel mounting key & clip assembly or edgeboard mounting brackets are used.

 Front mounting is preferred. However, when rear mounting is necessary, use figure 3 for dimensions.

- Figure 4 is for edge board mounting bracket or edgeboard clip assembly. The .184 +_ .002 (2.67 +_ 0.05) dimension locates the MD socket insulator flush with the end of the board.
 Screw brackets (015-9100-000) will accommodate #2-56 screws.
- Screw brackets (013-9100-000) will accommodate #2-30 screws.
 Front mounting (Figure 1) and rear mounting (Figure 3) accommodate #2-56 screws.

Shell Size		+ .004 (0.10) 000 (0.00)	+ .004 (0.10) 000 (0.00)	+ .004 (0.10) 000 (0.00)	+ .005 (0.13) 000 (0.00)
	1	.408 (10.36)	.172 (4.37)	.650 (16.51)	.089 (2.26)
	2	.408 (10.36)	.172 (4.37)	-	-
9	3	.378 (9.60)	.217 (5.51)	.650 (16.51)	.089 (2.26)
	4	.400 (10.16)	.091 (2.31)	-	-
	1	.588 (14.94)	.172 (4.37)	.795 (20.19)	.089 (2.26)
	2	.588 (14.94)	.172 (4.37)	-	-
15	3	.528 (13.28)	.217 (5.51)	.795 (20.19)	.089 (2.26)
	4	.550 (13.97)	.091 (2.31)	-	-
	1	.738 (18.75)	.172 (4.37)	.945 (24.00)	.089 (2.26)
	2	.738 (18.75)	.172 (4.37)	-	-
21	3	.678 (17.27)	.217 (5.51)	.945 (24.00)	.089 (2.26)
	4	.700 (17.78)	.091 (2.31)	-	-
	1	.838 (21.29)	.172 (4.37)	1.045 (26.54)	.089 (2.26)
	2	.838 (21.29)	.172 (4.37)	-	-
25	3	.778 (19.76)	.217 (5.51)	1.045 (26.54)	.089 (2.26)
	4	.800 (20.32)	.091 (2.31)	-	-
	1	1.138 (28.91)	.172 (4.37)	1.345 (34.16)	.089 (2.26)
	2	1.138 (28.91)	.172 (4.37)	-	-
37	3	1.078 (27.38)	.217 (5.51)	1.345 (34.16)	.089 (2.26)
	4	1.100 (27.94)	.091 (2.31)	-	-
	1	1.088 (27.64)	.215 (5.46)	1.295 (32.89)	.089 (2.26)
	2	1.088 (27.64)	.215 (5.46)	-	-
51	3	1.028 (26.11)	.260 (6.60)	1.295 (32.89)	.089 (2.26)
	4	1.050 (26.67)	.091 (2.31)	-	-

В

A



Dimensions shown in inch (mm) Specifications and dimensions subject to change