3M™ Mini D Ribbon (MDR) Connectors

.050" Boardmount Thru-Hole Vertical Receptacle - Shielded

102 Series



- Wiper-on-wiper contact for reliable repetitive plugging
- Rugged die cast metal case construction
- Screw lockdown for reliable PCB retention
- Interface latch design for connection stability
- IEEE 1284C Interface as a 36 contact connector
- Contacts: 14, 20, 26, 36, 40, 50, 68, 80 and 100
- RoHS* compliant version (-PC plating suffix) available

Date Modified: October 19, 2005

TS-0427-16 Sheet 1 of 3

Physical

Insulation

Material: Glass Reinforced Polyester (PBT)

Flammability: UL 94V-0

Color: Black

Contact Material: Copper Alloy (C521)

Plating

Underplating: 80 μ" (2.0 μm) Nickel - QQ-N-290, Class 2

Wiping Area: 30 μ" (0.76 μm) Min Gold - MIL-G-45204, Type II, Grade C

Solder Tails: See ordering information

Body

Material: Zinc Alloy Plating: Nickel

Shroud & Latch Hook

Material: Steel Plating: Nickel

Marking: 3M Logo & Part Number

Electrical

Current Rating: 1 A

Insulation Resistance: $> 5 \times 10^8 \Omega$ at 500 VDC **Withstanding Voltage:** 500 Vrms for 1 Minute

Environmental

Temperature Rating: -20°C to +85°C

"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or prolybromianted diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

UL File No.: E68080

102 Series

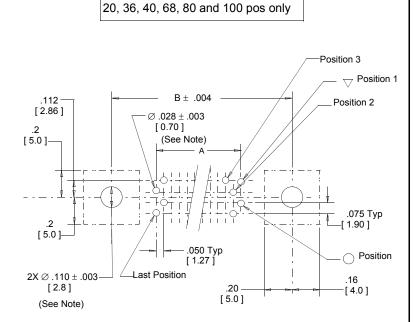
Contact	Dim ensions			
Quantity	A B C D E			
14	300 [7.62] 93 [23.6] 1.16 [29.5] 50 [12.6] .77 [19.5]			
20	450 [11.43] 1.08 [27.5] 1.31 [33.4] .65 [16.4] .92 [23.4]			
26	600 [15.24] 1.23 [31.3] 1.46 [37.2] 80 [20.2] 1.07 [27.2]			
36 40	.850 [21.59] 1.48 [37.6] 1.71 [43.5] 1.05 [26.6] 1.32 [33.5] .950 [24.13] 1.58 [40.2] 1.81 [46.1] 1.15 [29.1] 1.42 [36.1]			
50	.950 24.13 1.58 40.2 1.81 46.1 1.15 29.1 1.42 36.1			
68	1.650 [41.91] 2.28 [57.9] 2.51 [63.8] 1.85 [46.9] 2.12 [53.8]			
80	1.950 49.53 2.58 65.6 2.81 71.5 2.15 54.5 2.42 61.5			
100	2.450 [62.23] 3.08 [78.3] 3.31 [84.2] 2.65 [67.2] 2.92 [74.2]			
23 [5.8]	C			
(2X) Lockstand see ordering info below	Thread ormation Inch Inch			
Ordering Information				
102 <u>XX</u> -62 <u>X</u> 2 <u>X</u> C				
	Contact QuantitySolder tail plating:			
	(See Table) V = tin-lead over Ni A0 = 100 pos. P = flash Gold over Ni (RoHS compliant)			
	Lockstand Thread			
	0: M 2.6 (Special) 1: M 2.5 (Standard) TS-0427-16 Sheet 2 of 3			

.050" Boardmount Thru-Hole Vertical Receptacle - Shielded

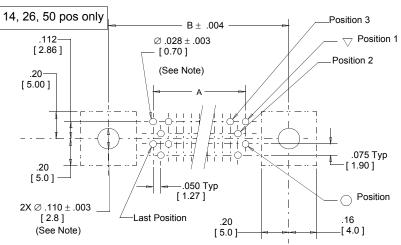
102 Series

Contact	Dimensions	
Quantity	A	В
20	.450 [11.43]	1.081 [27.45]
36	.850 [21.59]	1.481 [37.61]
40	.950 [24.13]	1.581 [40.15]
68	1.650 [41.91]	2.281 [57.93]
80	1.950 [49.53]	2.581 [65.55]
100	2.450 [62.23]	3.081 [78.25]

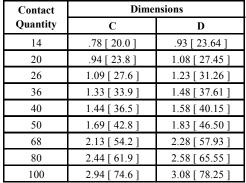
Contact	Dimensions	
Quantity	A	В
14	.300 [7.62]	0.931[23.64]
26	.600 [15.24]	1.231 [31.26]
50	1.200 [30.48]	1.831 [46.50]

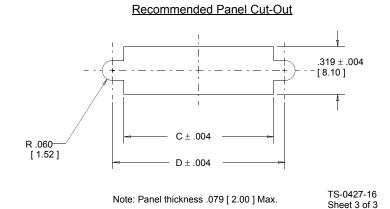


Recommended Board Layout Viewed from Connector Side



Note: Plated through holes for .062'' board thickness.





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