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: April 5, 2005

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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

UL File No.: E68080

Temperature Rating: -20°C to +85°C

*RoHS = Directive 2002/95/EC,

Reduction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

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102 Series

		D: :			
Contact Quantity	A B	Dim ensions C	D	T.	
Quantity 14	A B 300 [7.62] 93 [23.6]	1.16 [29.5]	50 [12.6]	E .77 [19.5]	
20		1.31 [33.4]	.65 [16.4]	.92 [23.4]	
26	450 [11.43] 1.08 [27.5]	1.46 [37.2]	.80 [20.2]	1.07 [27.2]	
36	.850 [21.59] 1.48 [37.6]	1.71 [43.5]	1.05 [26.6]	1.32 [33.5]	
40	.950 [24.13] 1.58 [40.2]	1.81 [46.1]	1.15 [29.1]	1.42 [36.1]	
50	1.200 [30.48] 1.83 [46.5]	2.06 [52.4]	1.40 [35.5]	1.67 [42.4]	
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]————————————————————————————————————	.050 [1.27]	.05 [1.3]		.075 [1.905] .075 [1.905] .0157 S [0.399 .134 [3.4]	Q
(2X) Lockstand			_ ¬¬ ₽	Position 1	
see ordering info below	rmation ·			<u> </u>	Inch
Delow		7		.36	[m m]
 	——		H/_\ -	.30 [9.1]	• • •
		<u></u>	<u> </u>		Tolerance Unless Noted
.18		/ /		25	.0 .00 .000
[4.6]	.050	/ \	<u> </u>	3.3]	inch ±.1 ±.01 ±.005
		/	Position		[] Dimensions for Reference
	∠ Last Position	15°	J.		Only
		, [
Ordering In	formation				
		40000	627270		
		102 <u>XX</u>	-62 <u>X</u> 2 <u>X</u> C		
	Contact Qua	intity————	s	older tail plating:	
	(See Table) A0 = 100 po	e	V	= tin-lead over Ni = flash Gold over Ni (Ro	HS compliant)
	Αυ – 100 ρο	J.		- nasn Goid over Ni (Ro	n io compilarit)
				ockstand Thread	
			0	: M 2.6 (Special) : M 2.5 (Standard)	
			'	2.0 (Standard)	TS-0427-15
					Sheet 2 of 3

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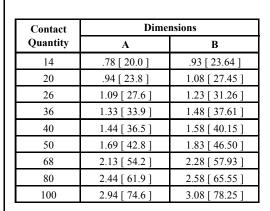
102 Series

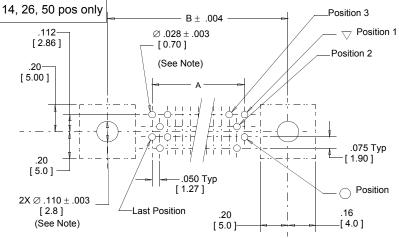
Contact	Dimensions			
Quantity	A	В		
20	.450 [11.43]	1.081 [27.45]		
36	.850 [21.59]	1.481 [37.61]		
40	.950 [24.13]	1.581 [40.15]		
68	1.650 [41.91]	2.281 [57.93]		
80	1.950 [49.53]	2.581 [65.55]		
100	2.450 [62.23]	3.081 [78.25]		

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]	18.31 [46.50]		

	20, 36, 40, 68, 80 ar	nd 100 pos only	
.112 [2.86] .2 [5.0]	B ± .004 Ø .028 ± .003 [0.70] (See Note) A-	Гур	Position 3 Position 1 Position 2 O75 Typ [1.90] Position
2X Ø .110 ± .003 [2.8] (See Note)	∠Last Position	.20 [5.0]	.16 [4.0]

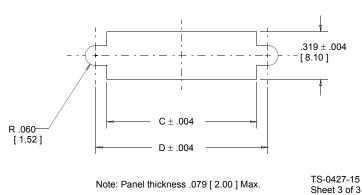
Recommended Board Layout Viewed from Connector Side





Note: Plated through holes for .062 $\!\!\!^{\prime\prime}$ board thickness.

Recommended Panel Cut-Out



Important Notice

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