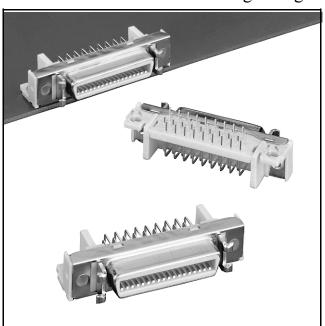
3M™ Mini D Ribbon (MDR) Connectors

.050" Boardmount Thru-Hole Right Angle Receptacle - Shielded

102 Series



- Wiper-on-wiper contact for reliable repetitive plugging
- SMT compatible PCT insulator material
- · Ground lock PCB retention
- Interface latch design for connection stability
- MDR digital LCD interface as a 20 or 26 contact connector
- Contacts: 14, 20, 26, 36, 40, 50 and 68
- RoHS* compliant version (-PL or -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: See ordering information

Contact Material: Copper Alloy (C521)

Plating

Underplating: See ordering information Wiping Area: See ordering information Solder Tails: See ordering information

Shroud & Latch Hook

Material: Steel Plating: Nickel

Ground Lock

Material: Copper Alloy Plating: Matte tin

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: -55°C to +105°C

Process Rating: Surface mount compatible - max. temp. 240°-250°C for 10 seconds.

UL File No.: E68080 *RoHS = Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

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Contact		Inch							
Quantity	A	В	C	D	E	[mm]			
14	0.300 [7.62]	0.93 [23.6]	1.16 [29.5]	0.50 [12.6]	0.77 [19.5]	Tolerance Unless Noted			
20	0.450 [11.43]	1.08 [27.5]	1.31 [33.4]	0.65 [16.4]	0.92 [23.4]	.0 .00 .000			
26	0.600 [15.24]	1.23 [31.3]	1.46 [37.2]	0.80 [20.2]	1.07 [27.2]	inch ±.1 ±.01 ±.005			
36	0.850 [21.59]	1.48 [37.6]	1.71 [43.5]	1.05 [26.6]	1.32 [33.5]	[] Dimensions for Reference			
40	0.950 [24.13]	1.58 [40.2]	1.81 [46.1]	1.15 [29.1]	1.42 [36.1]	Only			
50 68	1.200 [30.48]	1.83 [46.5] 2.28 [57.9]	2.06 [52.4]	1.40 [35.5]	1.67 [42.4] 2.12 [53.8]				
Position 3 — Position 2 — Position 1 — Position 2 — Position 1 — Position 1 — Position 1 — Position 2 — Position 1 — Position 1 — Position 1 — Position 1 — Position 2 — Position 1 — Position 2 — Position 1 — Position 2 — Position 2 — Position 1 — Position 2 — Position 2 — Position 2 — Position 2 — Position 3 — Position 2 — Position 2 — Position 3 — Position 2 — Position 3 — Posit									
(2X) Threaded Hole for Panel Mounting (See Note in Ordering Information) Position 2 Position 1 Position 2 Position 1									
.01 [0.3] Last Po		050 Typ [1.27]	18	\	0911 [2.8] round Lock (2X)				
Ordering In	formation	•	Y102YY <i>EE</i>	V2VV					
X102XX-55X3XX Connector Material: Blank = Beige D = Black (20 pos. only) Contact Quantity: Contact Quantity: Wiping area plating: L = 8 μ" [0.2 μm] Min. Gold over 50 μ" [1.27 μm] Min. Ni. C = 30 μ" [0.76 μm] Min. Gold over100 μ" [2.54 μm] Min. Ni. Solder tail plating: J or V = tin-lead over Ni P = flash gold over Ni (RoHS compliant) Panelmount thread size: G = M2.5 (14, 20, 26, 36, 40 position) TS-0621-10									
ote: Must order panelmount screws: 3344-38 for M2.5, 3344-44 for #4-40. H = #4-40 (20, 36, 50 & 68 position) Sheet 2 of 3									

.050" Boardmount Thru-Hole Right Angle Receptacle - Shielded

102 Series

		n		
Contact Quantity		Dimensions		
	A	В	C	
14	.300 [7.62]	.931 [23.64]	.78 [19.9]	
20	.450 [11.43]	1.081 [27.45]	.94 [23.8]	
26	.600 [15.24]	1.231 [31.26]	1.09 [27.6]	
36	.850 [21.59]	1.481 [37.61]	1.33 [33.9]	
40	.950 [24.13]	1.581 [40.15]	1.44 [36.5]	
50	1.200 [30.48]	1.831 [46.50]	1.69 [42.8]	
68	1.650 [41.91]	2.281 [57.93]	2.13 [54.2]	
For 20), 36, 40, & 68 Pos	(Vie	mmended Board Layout wed from Connector Side) Position 3	
	Ø .028 ±	004	Position 2	
	[0.70]		B ± .004	
2X Ø	Note)* 0.110 ± .004 [2.80] .16 [4.1] .19 [4.9]	Last Position	A 20 16 [5.0] [4.0] 3X.075 [1.91] 3X.075 [1.91]	
(2	## 14, 26, & 50 Posi ## 20,70] See Note)* X Ø.110 ± .004 2.80] .16 4.1]		Position 3 Position 2 Position 1 B ± .004 A 20 [5.0] [1.27] 3X .075 [1.91] 18 Max [4.7] 0 Position Edge of PC Board	
		R .060 — [1.5]	C ± .004 .319 ± .004 [8.10] Recommended Panel Cut-Out Note: Panel thickness .079 [2.00] Max.	TS-0621-10 Sheet 3 of 3

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