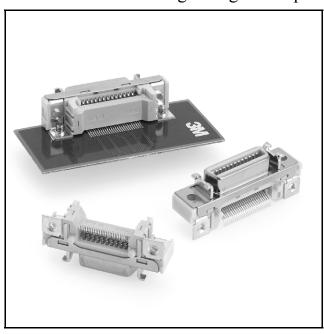
3M™ Mini D Ribbon (MDR) Connectors

.050" Surface Mount Right Angle Receptacle - Shielded

102 Series



- Wiper-on-wiper contact for reliable repetitive plugging
- Ultra-low signal skew for high data rate transmission
- Interface latch design for connection stability
- MDR digital LCD interface as a 20 or 26 contact connector
- Contacts: 14, 20, 26, 40 and 50
- RoHS* compliant version (-PE plating suffix) available

Date Modified: April 5, 2005

TS-0755-10 Sheet 1 of 3

Physical

Insulation

Material: Glass Reinforced Polyester (PCT)

Flammability: UL 94V-0 Color: Beige

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

Shroud & Latch Hook

Material: Steel Plating: Nickel

Screw Lock

Material: Copper Alloy (C521)

Plating: 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: 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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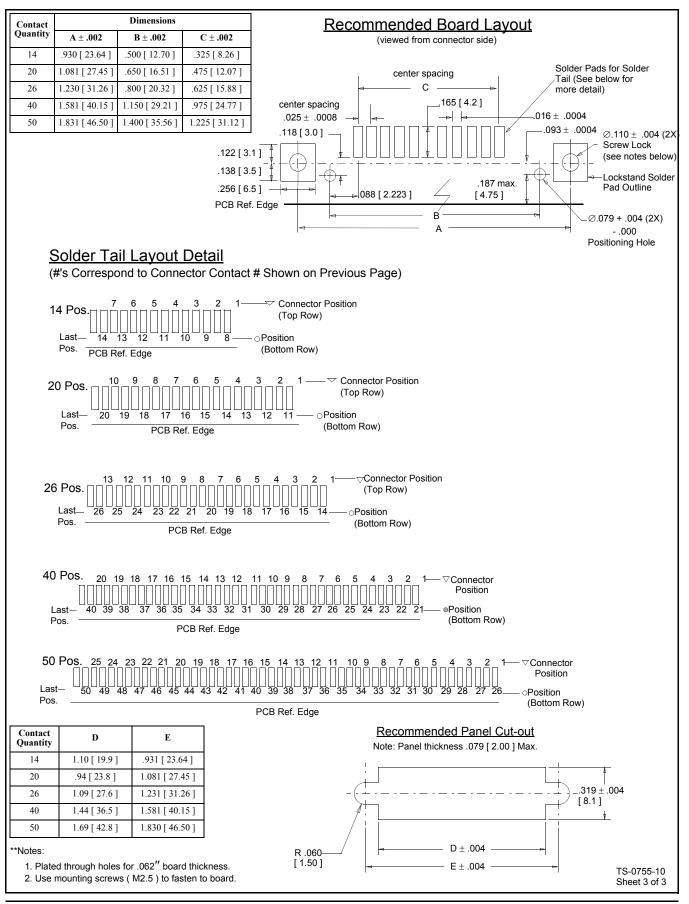
102 Series

Contact	3M Part Number	Dimensions					
Quantity		A±.008	B±.006	C±.006	D±.006	E±.006	
14	10214-1210 VE	1.16 [29.5]	.93 [23.64]	.47 [12.70]	.33 [8.26]	.50 [12.6]	1
20	10220-1210 VE	1.32 [33.4]	1.081 [27.45]	.650 [16.51]	.475 [12.07]	.646 [16.4]	
26	10226-1210 VE	1.50 [38.2]	1.231 [31.26]	.800 [20.32]	.625 [15.88]	.795 [20.2]	
40	10240-1210 VE	1.85 [47.1]	1.581 [40.15]	1.150 [29.21]	.975 [24.77]	1.150 [29.2]	
50	10250-1210 VE	2.06 [52.4]	1.831 [46.50]	1.400 [35.56]	1.225 [31.12]	1.40 [35.5]	
2X M2.5 Thread							
Contact Quantity (See Table) Solder tail plating: V = tin-lead over Ni P = flash gold over Ni (RoHS compliant)							
Note: Use ((M2.5x8 mm) screws to	mount to panel v	vith max. thickne	ess of 2.0 mm.			TS-0755-10 Sheet 2 of 3

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