## 3MTMINITERibbon (MDR) Connectors Under Substitution (MDR) Connectors (MDR) C

.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

Sheet 1 of 3

### **Physical**

Insulation

Material: Glass Reinforced Polyester (PCT)

SC.COM

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.

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

# 3M<sup>TM</sup> Mini D Ribbon (MDR) Connectors .050" Surface Mount Right Angle Receptacle - Shielded

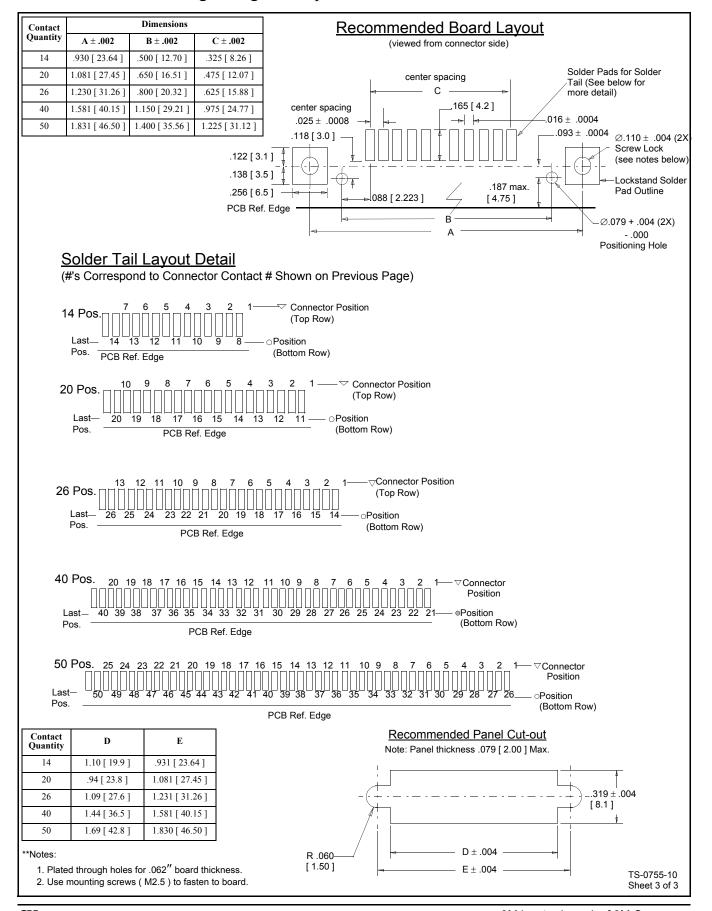
102 Series

Contact	3M Part	Dimensions					<b>6 1 6 6 1 6</b> 6
Quantity	Number	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 ]	]
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   1389   1480   164							
Contact Quantity  Cose Table)  Contact Quantity  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 with max. thickness of 2.0 mm.  TS-0755-10 Sheet 2 of 3							

## 3M™ Mini D Ribbon (MDR) Connectors

.050" Surface Mount Right Angle Receptacle - Shielded

102 Series



#### **Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

### Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of 90 days from the time of purchase. 3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.

