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

TS-0427-15 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

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

3M

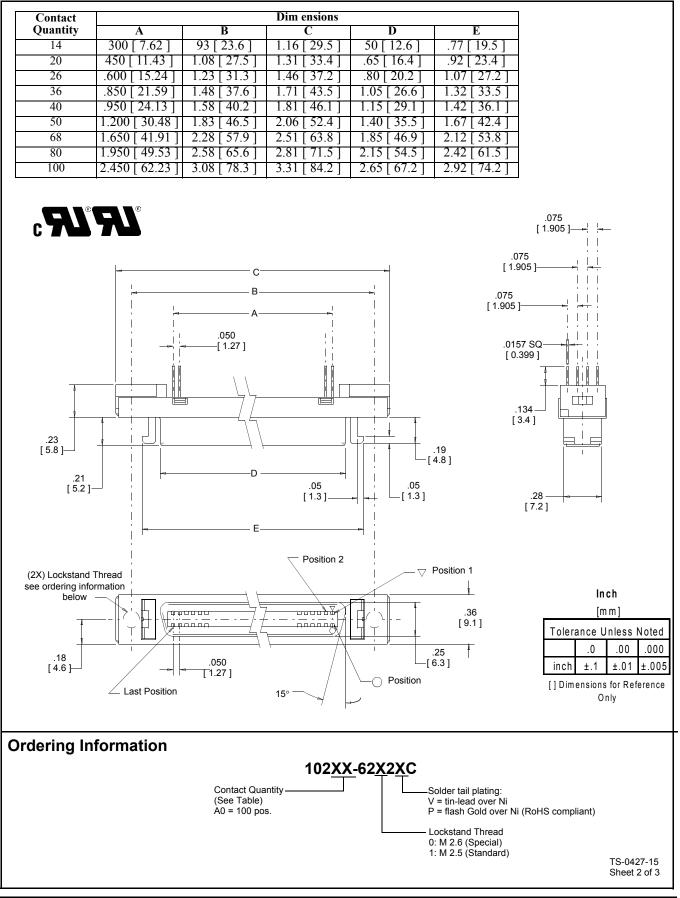
Interconnect Solutions
http://www.3M.com/interconnects/

3M is a trademark of 3M Company. For technical, sales or ordering information call **800-225-5373**

3M[™] Mini D Ribbon (MDR) Connectors

.050" Boardmount Thru-Hole Vertical Receptacle - Shielded

102 Series



3M™ Mini D Ribbon (MDR) Connectors

.050" Boardmount Thru-Hole Vertical Receptacle - Shielded

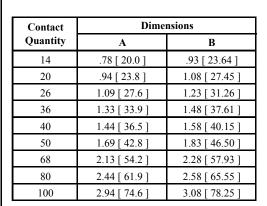
102 Series

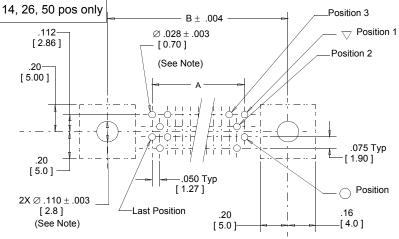
Contact Quantity	Dimensions		
	A	В	
20	.450 [11.43]	1.081 [27.45]	
36	.850 [21.59]	1.481 [37.61]	
40	.950 [24.13]	1.581 [40.15]	
68	1.650 [41.91]	2.281 [57.93]	
80	1.950 [49.53]	2.581 [65.55]	
100	2.450 [62.23]	3.081 [78.25]	

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 and	100 pos only	
.112	B ± .004 - Ø .028 ± .003 [0.70] (See Note) A		Position 3 Position 1 Position 2 O75 Typ 1.90] Position
2X Ø .110 ± .003- [2.8] (See Note)		.20	.16 [4.0]
(See Note)			

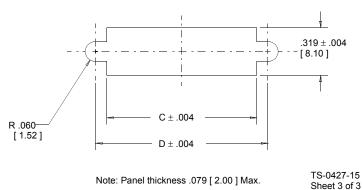
Recommended Board Layout Viewed from Connector Side





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

Recommended Panel Cut-Out



ЗМ

Interconnect Solutions
http://www.3M.com/interconnects/

3M is a trademark of 3M Company. For technical, sales or ordering information call **800-225-5373**

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.



Electronic Solutions Division

6801 River Place Blvd. Austin, TX 78726-9000 www.3M.com/esd



Minimum 10% Post-consumer Fiber Printed in USA.
© 3M 2005