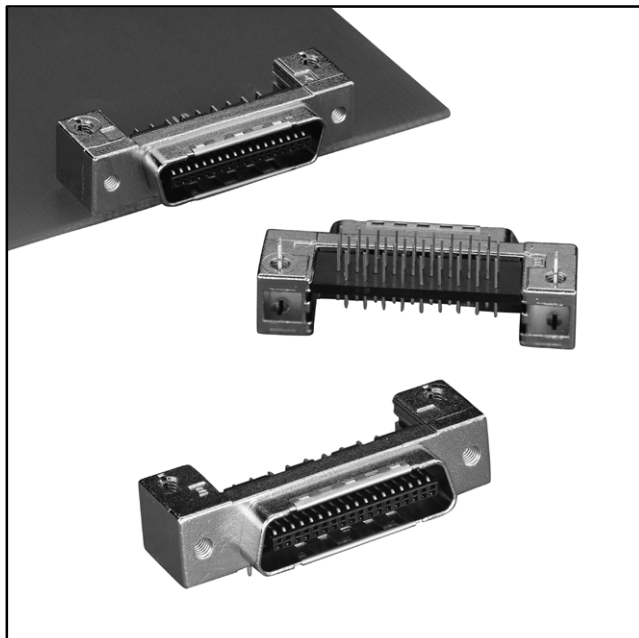


# 3M™ Mini D Ribbon (MDR) Connectors

.050" Boardmount Thru-Hole Right Angle Plug — Shielded

101 Series



- Wiper-on-wiper contact for reliable repetitive plugging
- Rugged die cast metal case construction
- Screw or ground lock PCB retention
- Normal and reverse “D” interface options for board to board flexibility
- IEEE 1284C Interface as a 36 contact connector
- Contacts: 20, 26, 36 and 50

Date Modified: May 30, 2003

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## Physical

### Insulation

Material: Glass Reinforced Polyester (PCT) - Body  
Glass Reinforced Polyester (PBT) - Alignment Plate

Flammability: UL 94V-0

Color: Black

### Contact

Material: Copper Alloy (C521)

### Plating

Underplating: 80  $\mu$ " (2.54  $\mu$ m) Nickel — QQ-N-290, Class 2

Wiping Area: 30  $\mu$ " (0.76  $\mu$ m) Min Gold — MIL-G-45204, Type II, Grade C

### Body

Material: Zinc Alloy

Plating: Nickel

### Ground Plate

Material: Copper Alloy (C521)

Plating: Nickel

Marking: 3M Logo and Part Number

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## Electrical

**Current Rating:** 1 A

**Insulation Resistance:**  $>5 \times 10^8 \Omega$  at 500 Vdc

**Withstanding Voltage:** 500 Vrms for 1 Minute

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## Environmental

**Temperature Rating:** -20°C to +85°C

UL File No.: E68080

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<http://www.3M.com/interconnects/>

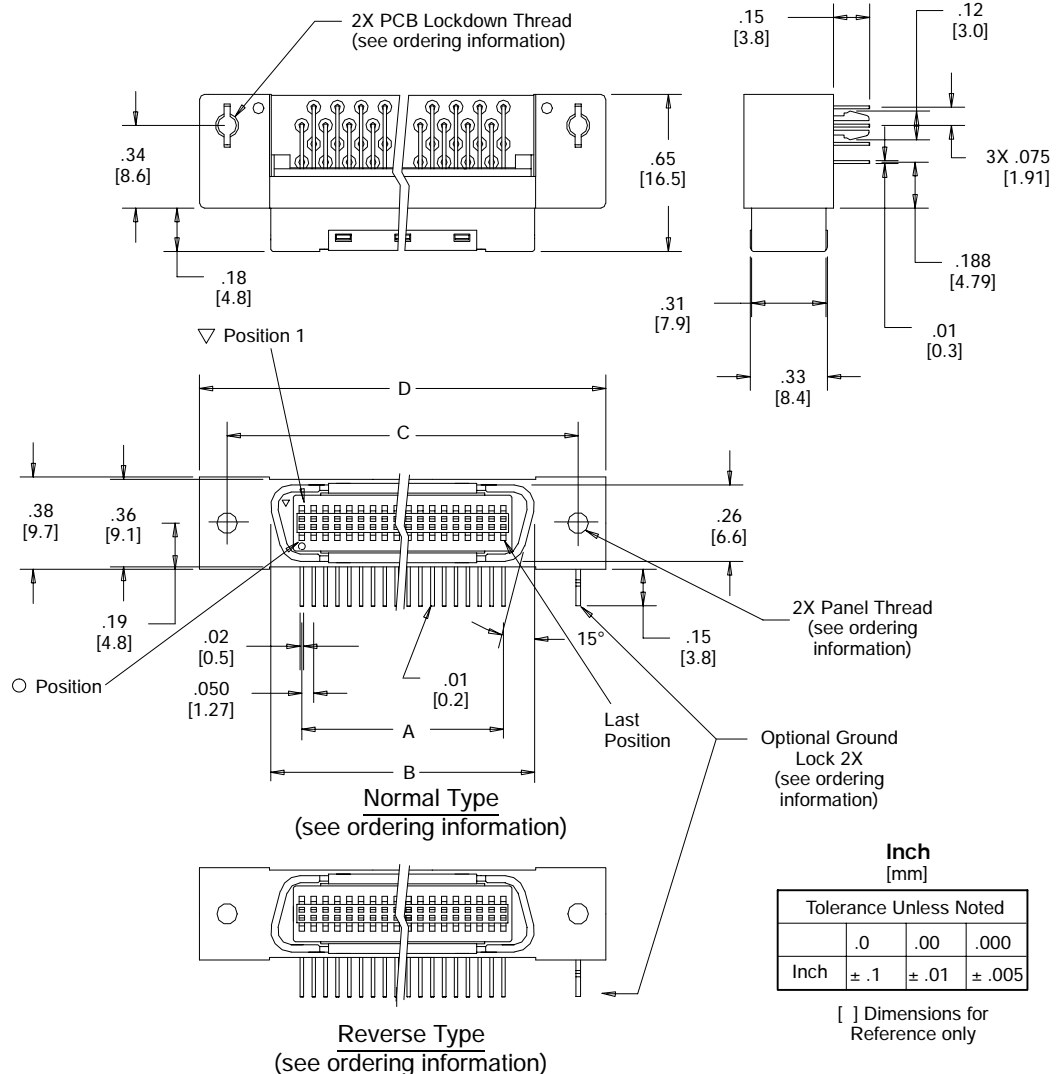
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# 3M™ Mini D Ribbon (MDR) Connectors

## .050" Boardmount Thru-Hole Right Angle Plug — Shielded

101Series

Contact Quantity	Dimensions			
	A	B	C	D
20	.450 [11.43]	.71 [18.1]	1.081 [27.45]	1.31 [33.3]
26	.600 [15.24]	.87 [22.0]	1.231 [31.26]	1.46 [37.2]
36	.850 [21.59]	1.11 [28.3]	1.481 [37.61]	1.71 [43.5]
50	1.200 [30.48]	1.46 [37.2]	1.831 [46.5]	2.06 [52.4]



### Ordering Information

**101XX-X2X2VC**

Contact Quantity ————

Panel/Board Retention Feature  
 20, 26, 36 pos:  
 1 = M2.5 panel/M2.5 screw lock  
 B = M2.5 panel/ground lock 50 pos:  
 4 = 4-40 panel/4-40 screw lock  
 E = 4-40 panel/ground lock

Mounting Feature  
 5 = Boardmount Right Angle Normal Type  
 7 = Boardmount Right Angle Reverse Type

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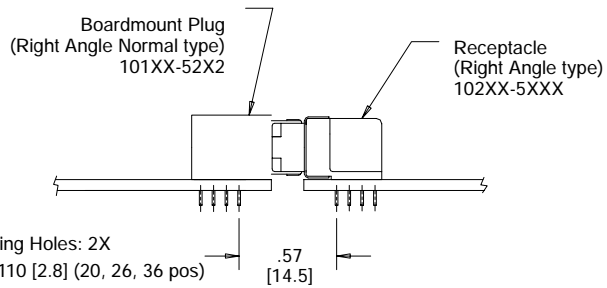
# 3M™ Mini D Ribbon (MDR) Connectors

## .050" Boardmount Thru-Hole Right Angle Plug — Shielded

101 Series

Contact Quantity	Dimensions		
	A	B	C
20	.450 [11.43]	1.081 [27.45]	.93 [23.7]
26	.600 [15.24]	1.231 [31.26]	1.08 [27.5]
36	.850 [21.59]	1.481 [37.61]	1.33 [33.9]
50	1.200 [30.48]	1.831 [46.50]	1.685 [42.80]

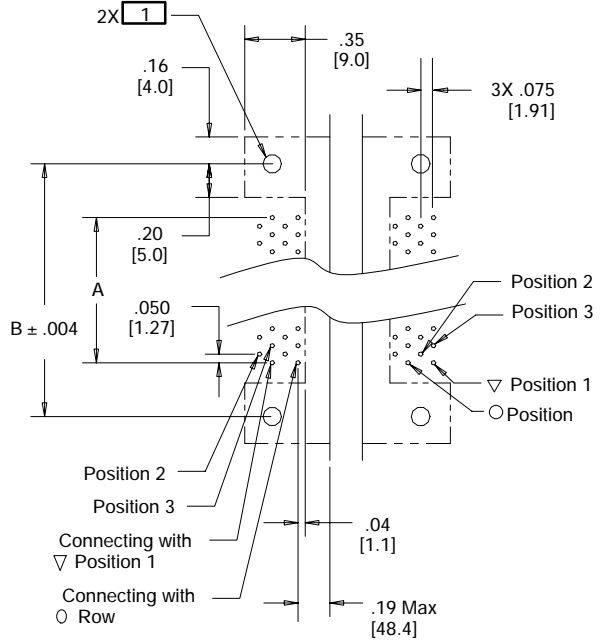
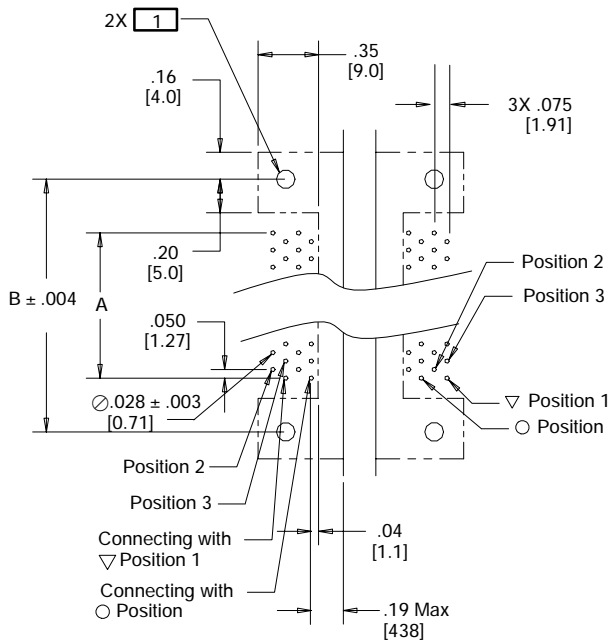
**Recommended Board Layout (Normal Type Plug)**  
(Plug viewed from connector side; receptacle viewed from bottom side)



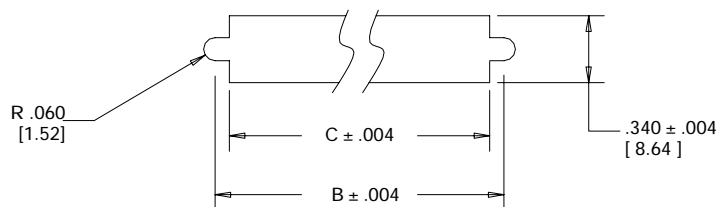
- 1** PC Boardmounting Holes: 2X  
 Screw Lock  $\varnothing$  .110 [2.8] (20, 26, 36 pos)  
 Ground Lock  $\varnothing$  .100 [2.6]  
 Screw Lock  $\varnothing$  .120 [3.0] (50 pos)

For 20 & 36 Position only

For 26 & 50 Position only



Note: Plated through holes for .062" board thickness



**Recommended Panel Cut-Out**

Note: Panel thickness .079 [2.00] Max.

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Sheet 3 of 4

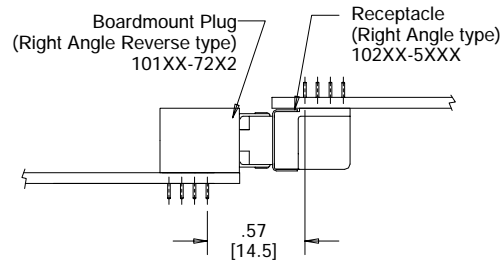
# 3M™ Mini D Ribbon (MDR) Connectors

## .050" Boardmount Thru-Hole Right Angle Plug — Shielded

101 Series

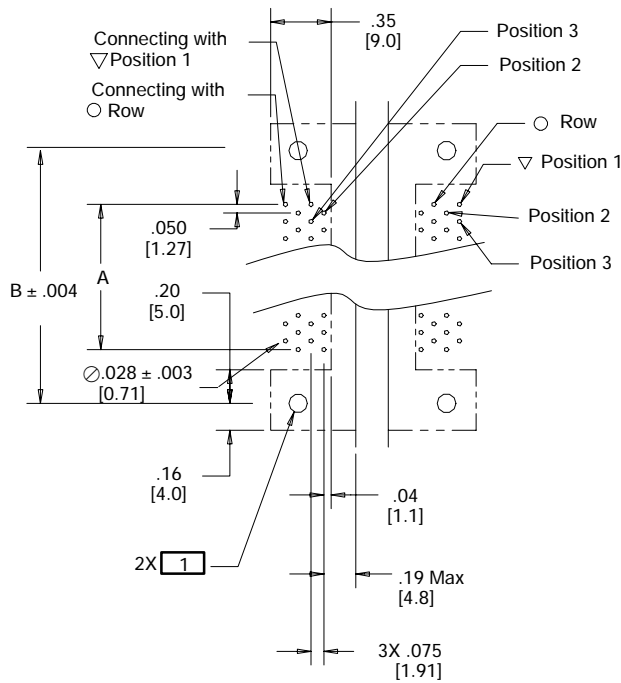
Contact Quantity	Dimensions	
	A	B
20	.450 [11.43]	1.081 [27.45]
26	.600 [15.24]	1.231 [31.26]
36	.850 [21.59]	1.481 [37.61]
50	1.200 [30.48]	1.831 [46.50]

**Recommended Board Layout (Reverse Plug)**  
(Plug viewed from Connector side Receptacle viewed from bottom side)

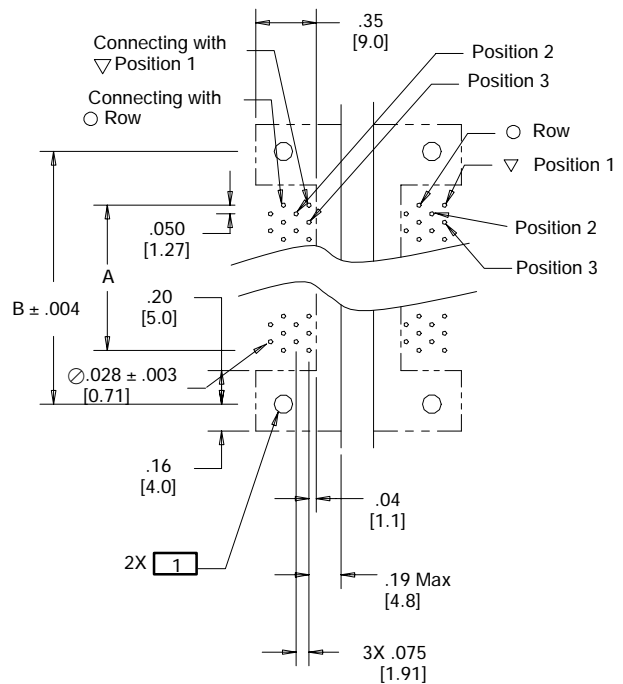


- 1** PC Boardmounting Holes: 2X  
 Screw Lock  $\varnothing$  .110 [2.8] (20, 26, 36 pos)  
 Ground Lock  $\varnothing$  .100 [2.6]  
 Scre Lock  $\varnothing$  .120 [3.0] (50 pos)

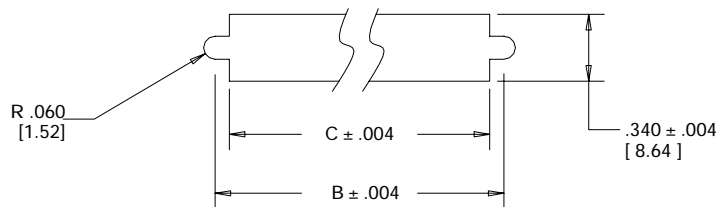
For 20 & 36 Position only



For 26 & 50 Position only



Note: Plated through holes for .062" board thickness



**Recommended Panel Cut-Out**

Note: Panel thickness .079 [2.00] Max.

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Sheet 4 of 4

### **Important Notice**

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