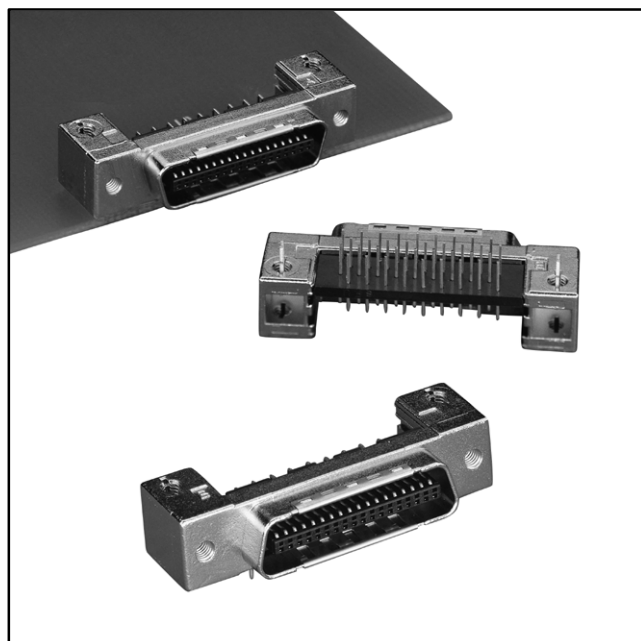


# 3M™ Mini D Ribbon (MDR) Connectors

.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

**3M**

**Interconnect Solutions**

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

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For technical, sales or ordering information call

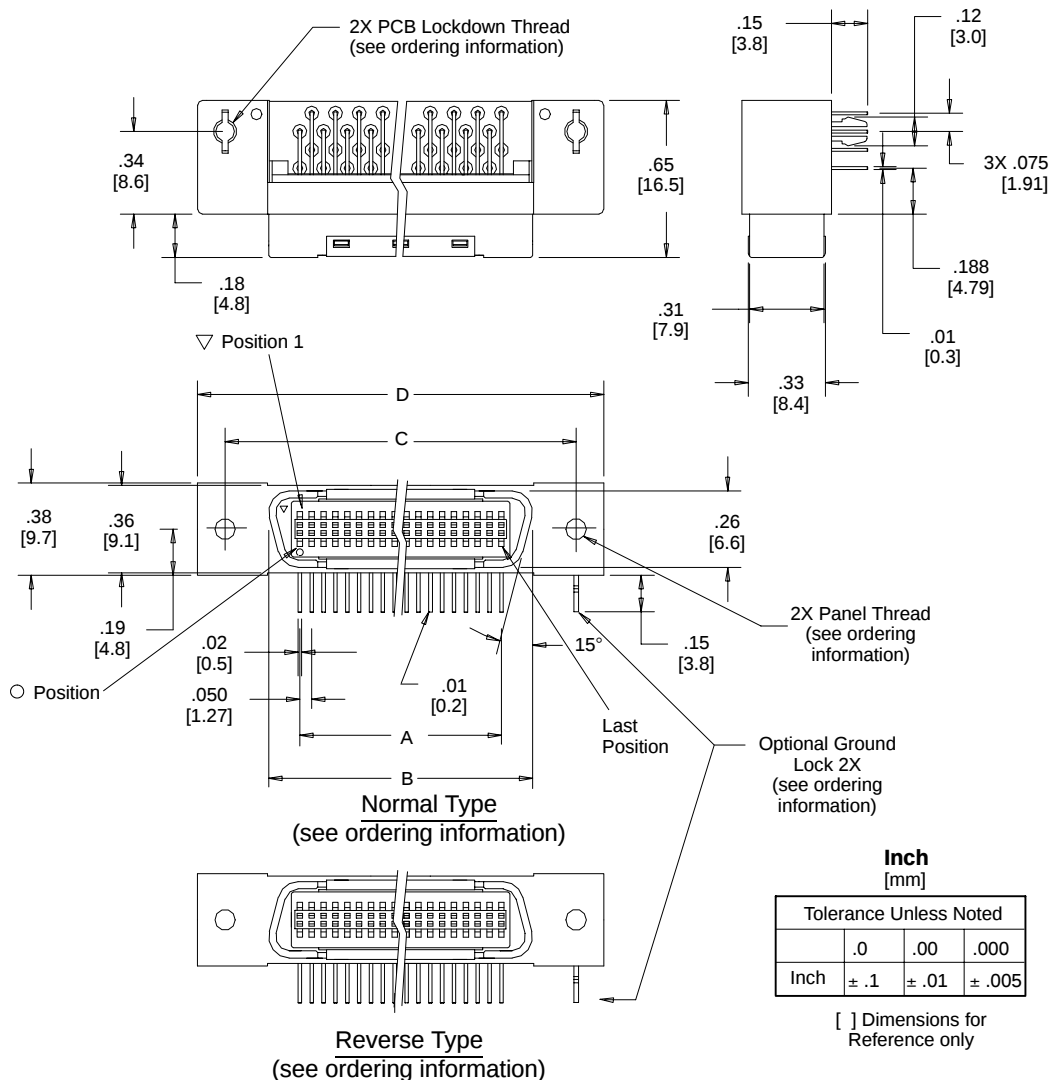
**800-225-5373**

# 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

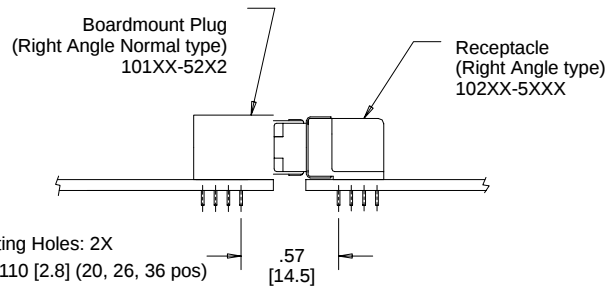
## .050" Boardmount Thru-Hole Right Angle Plug — Shielded

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] |

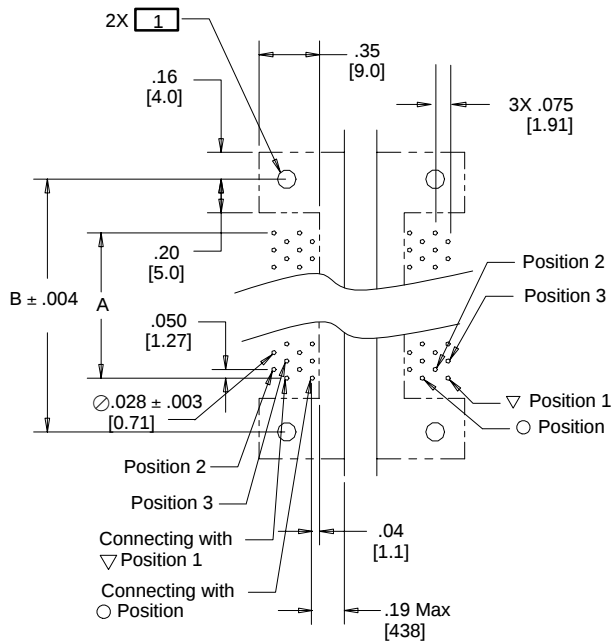
### Recommended Board Layout (Normal Type Plug)

(Plug viewed from connector side; receptacle viewed from bottom side)

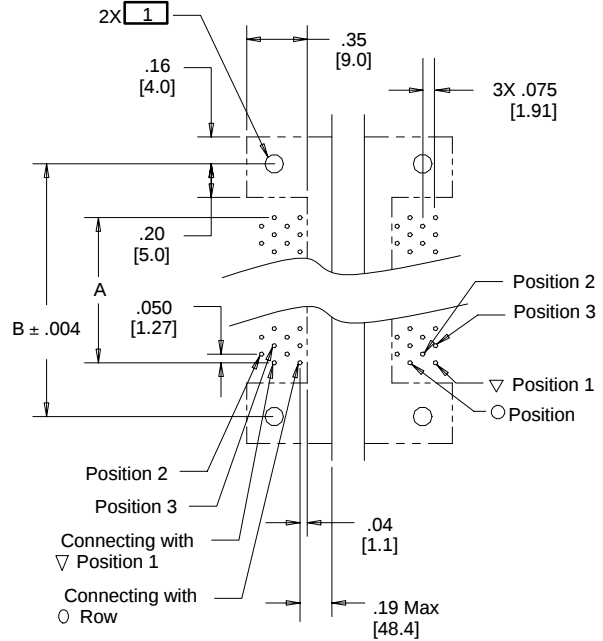


- 1** PC Boardmounting Holes: 2X  
 Screw Lock  $\varnothing$  .110 [2.8] (20, 26, 36 pos)  
 Ground Lock  $\varnothing$  .100 [2.6]  
 Screw Lock  $\varnothing$  .120 [3.0] (50 pos)

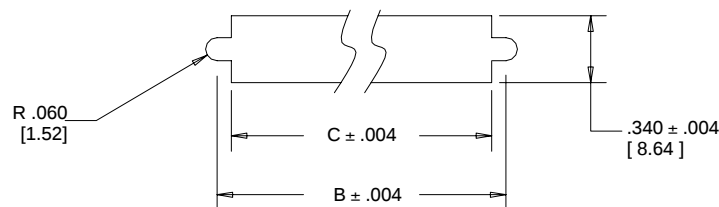
For 20 & 36 Position only



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

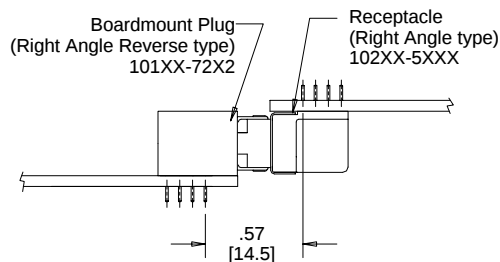
## .050" Boardmount Thru-Hole Right Angle Plug — Shielded

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] |

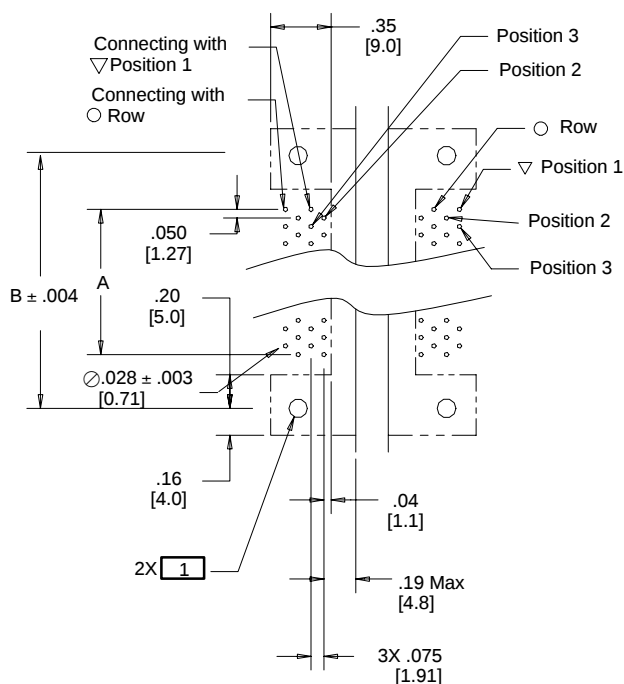
### Recommended Board Layout (Reverse Plug)

(Plug viewed from Connector side Receptacle viewed from bottom side)

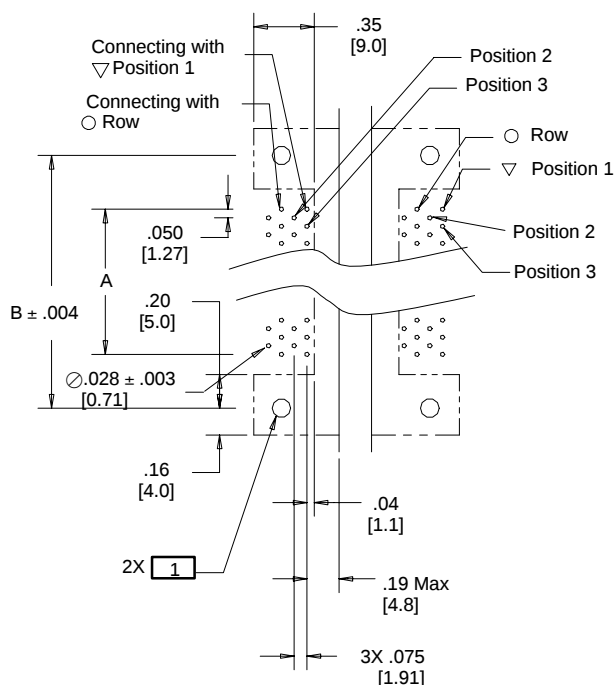


- 1** PC Boardmounting Holes: 2X  
 Screw Lock  $\varnothing$  .110 [2.8] (20, 26, 36 pos)  
 Ground Lock  $\varnothing$  .100 [2.6]  
 Scre Lock  $\varnothing$  .120 [3.0] (50 pos)

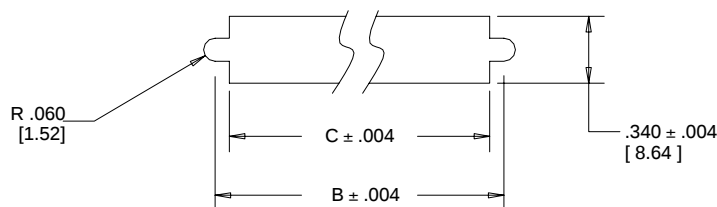
For 20 & 36 Position only



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

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