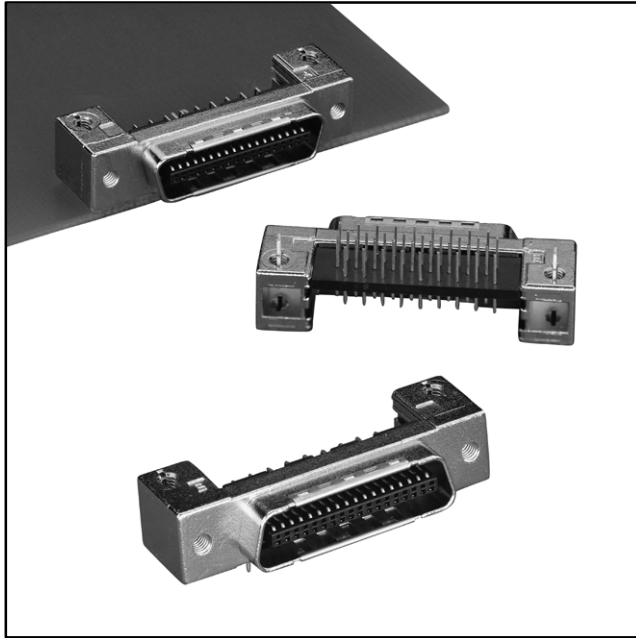


3M™ Mini D Ribbon (MDR) Connectors

.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

TS-0620-07
Sheet 1 of 4

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 μ " (2.54 μ m) Nickel — QQ-N-290, Class 2

Wiping Area: 30 μ " (0.76 μ 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

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: -20°C to +85°C

International Distributors

sky blue
microsystems

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+49 89 780 2970, info@skyblue.de
www.skyblue.de

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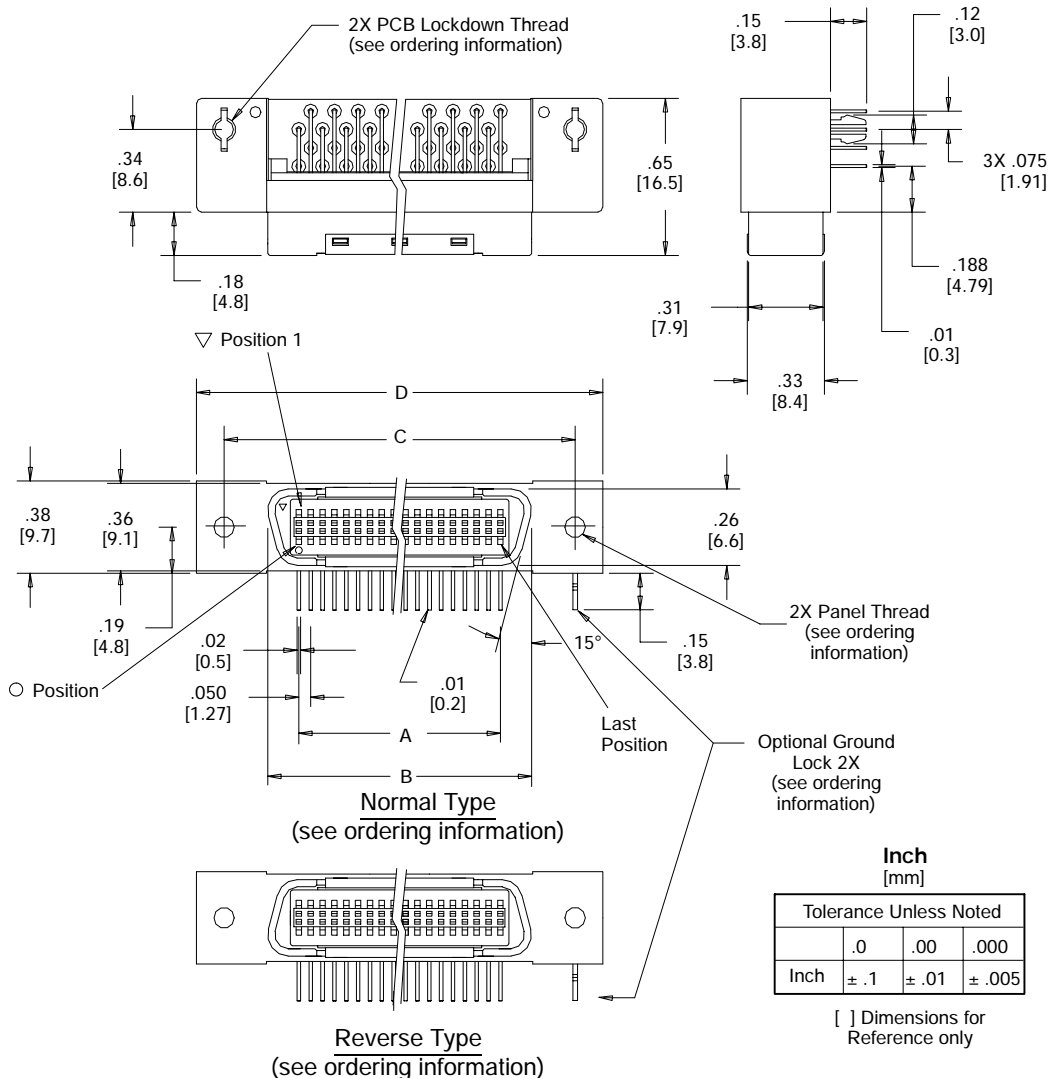
UL File No.: E68080

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

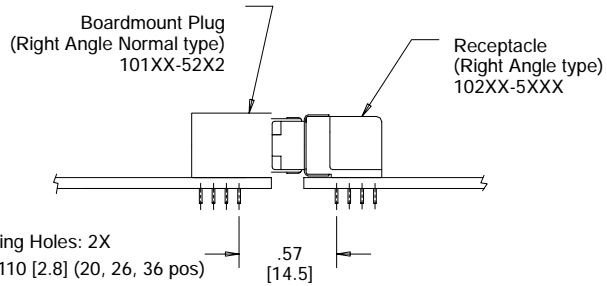
3M™ Mini D Ribbon (MDR) Connectors

.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] |

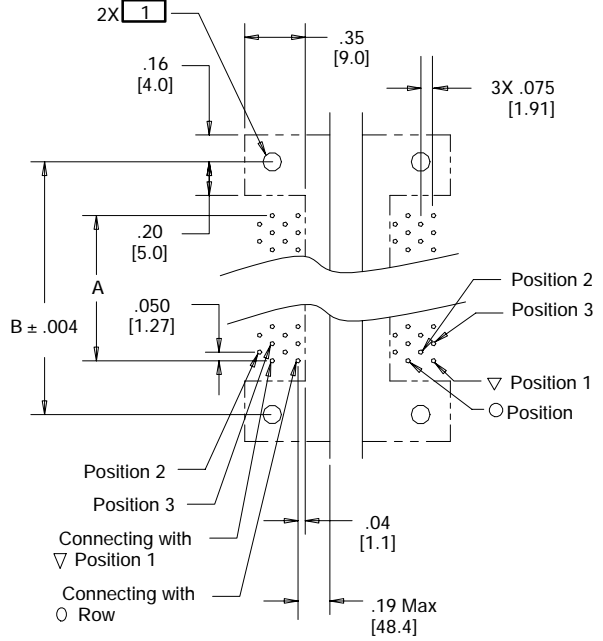
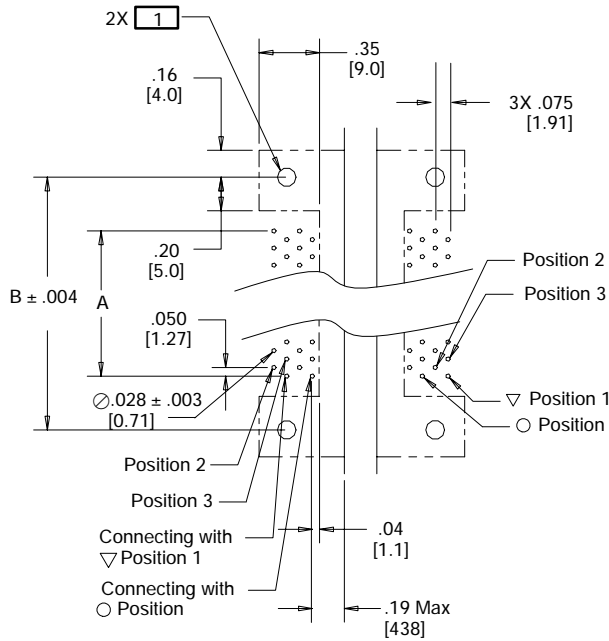
Recommended Board Layout (Normal Type Plug)
 (Plug viewed from connector side; receptacle viewed from bottom side)



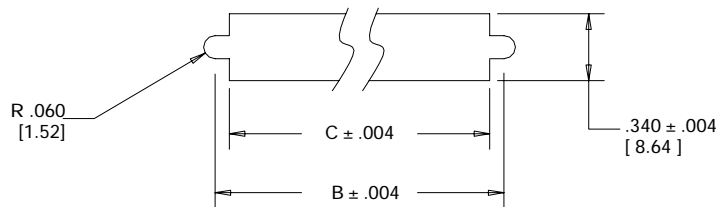
- 1** PC Boardmounting Holes: 2X
 Screw Lock \varnothing .110 [2.8] (20, 26, 36 pos)
 Ground Lock \varnothing .100 [2.6]
 Screw Lock \varnothing .120 [3.0] (50 pos)

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.

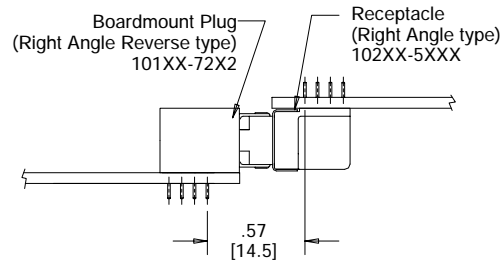
3M™ Mini D Ribbon (MDR) Connectors

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

101 Series

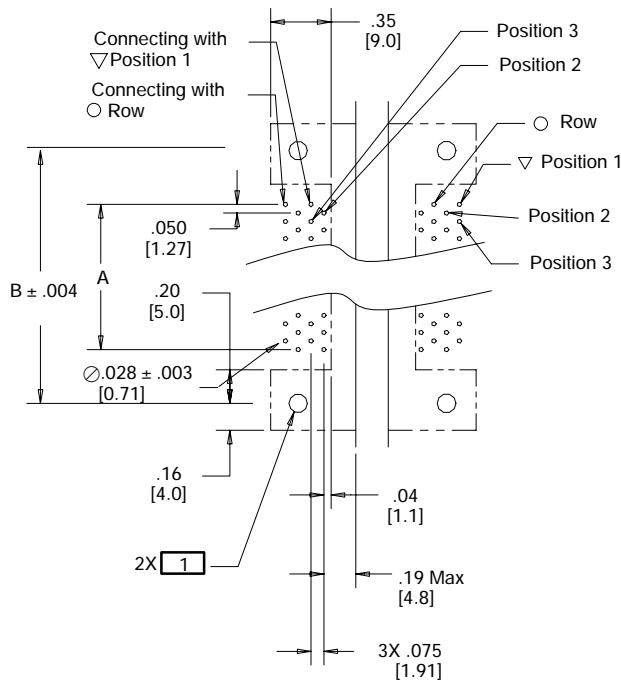
| Contact Quantity | Dimensions | |
|------------------|---------------|---------------|
| | A | B |
| 20 | .450 [11.43] | 1.081 [27.45] |
| 26 | .600 [15.24] | 1.231 [31.26] |
| 36 | .850 [21.59] | 1.481 [37.61] |
| 50 | 1.200 [30.48] | 1.831 [46.50] |

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

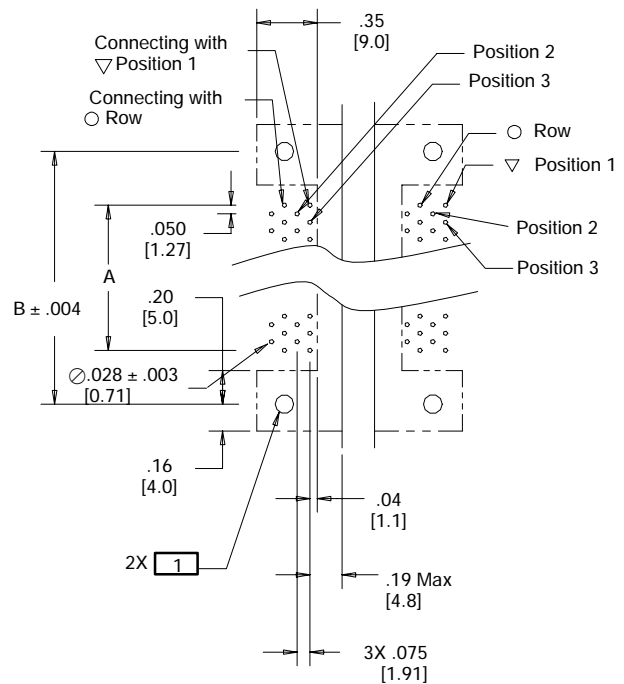


- 1** PC Boardmounting Holes: 2X
 Screw Lock \varnothing .110 [2.8] (20, 26, 36 pos)
 Ground Lock \varnothing .100 [2.6]
 Scre Lock \varnothing .120 [3.0] (50 pos)

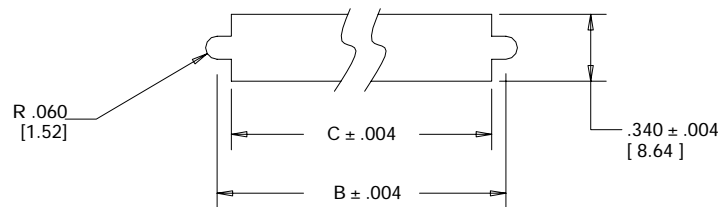
For 20 & 36 Position only



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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