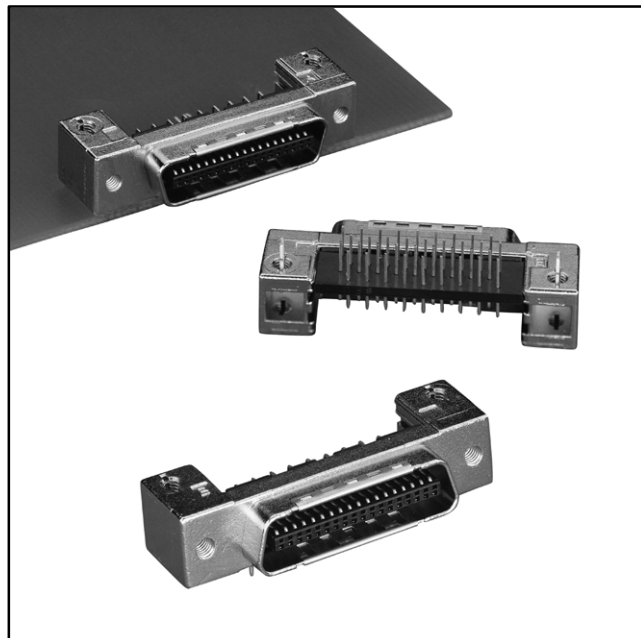


3M™ Mini D Ribbon (MDR) Connectors

.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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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

UL File No.: E68080

3M

Interconnect Solutions

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

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For technical, sales or ordering information call

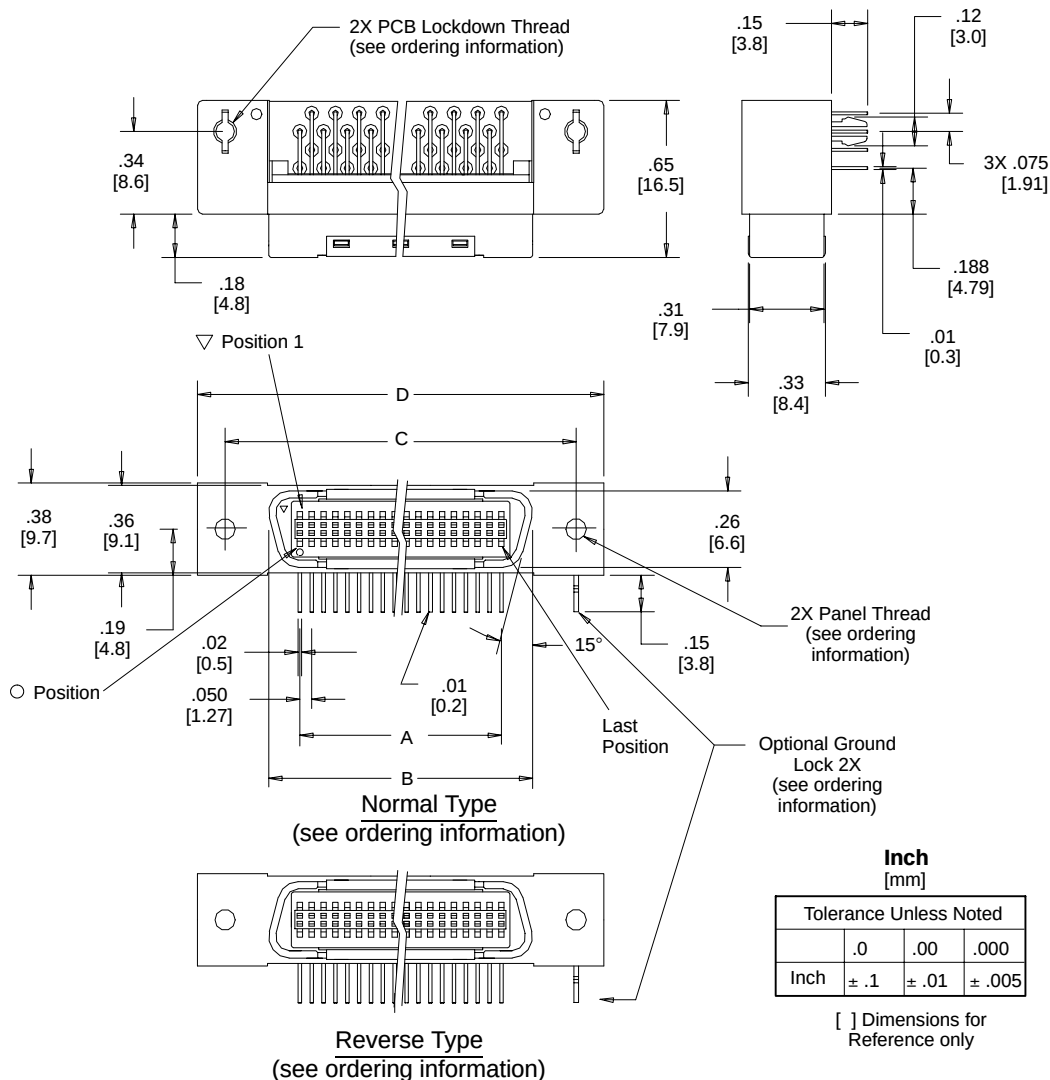
800-225-5373

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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Sheet 2 of 4

3M™ Mini D Ribbon (MDR) Connectors

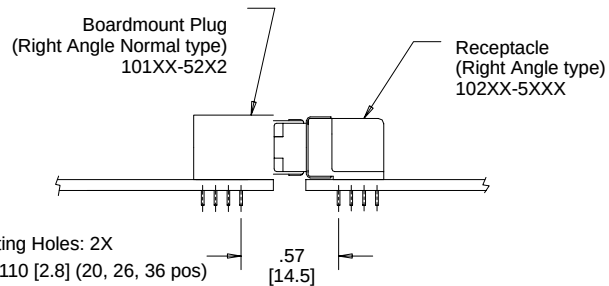
.050" Boardmount Thru-Hole Right Angle Plug — Shielded

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]

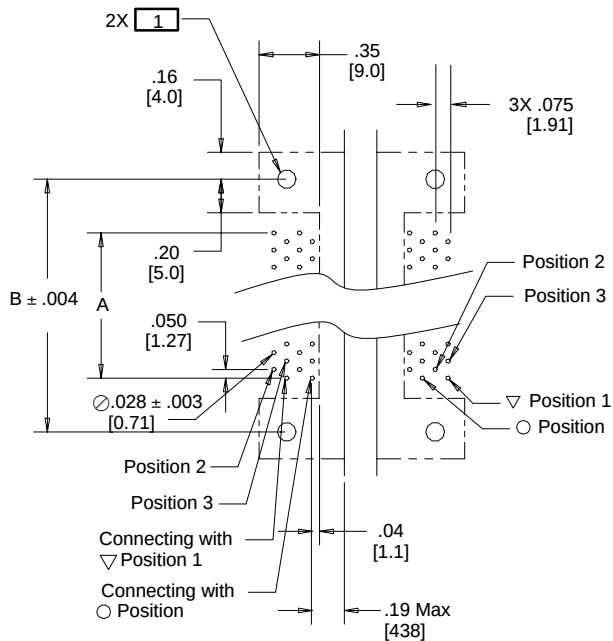
Recommended Board Layout (Normal Type Plug)

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

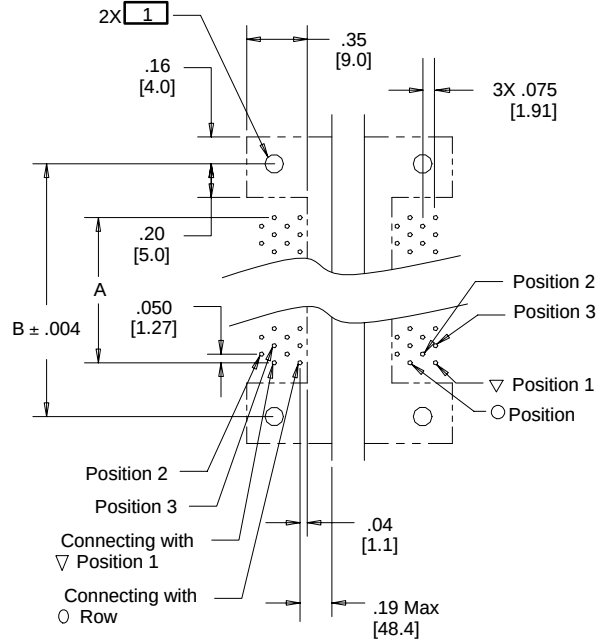


- 1** PC Boardmounting Holes: 2X
 Screw Lock $\varnothing$.110 [2.8] (20, 26, 36 pos)
 Ground Lock $\varnothing$.100 [2.6]
 Screw Lock $\varnothing$.120 [3.0] (50 pos)

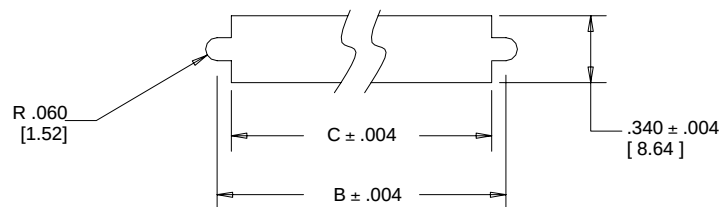
For 20 & 36 Position only



For 26 & 50 Position only



Note: Plated through holes for .062" board thickness



Recommended Panel Cut-Out

Note: Panel thickness .079 [2.00] Max.

TS-0620-07
 Sheet 3 of 4

3M™ Mini D Ribbon (MDR) Connectors

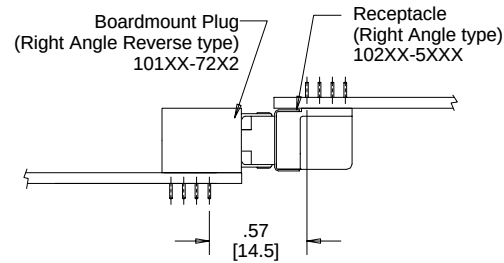
.050" Boardmount Thru-Hole Right Angle Plug — Shielded

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]

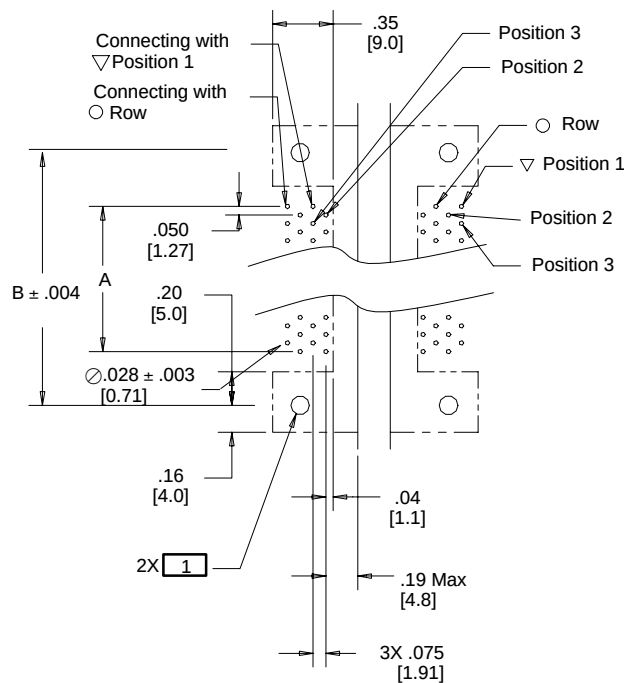
Recommended Board Layout (Reverse Plug)

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

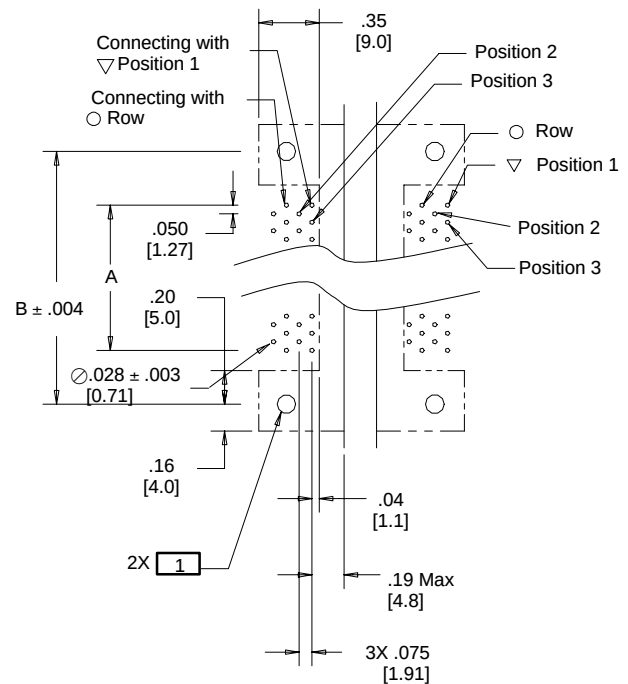


- 1** PC Boardmounting Holes: 2X
 Screw Lock $\varnothing$.110 [2.8] (20, 26, 36 pos)
 Ground Lock $\varnothing$.100 [2.6]
 Scre Lock $\varnothing$.120 [3.0] (50 pos)

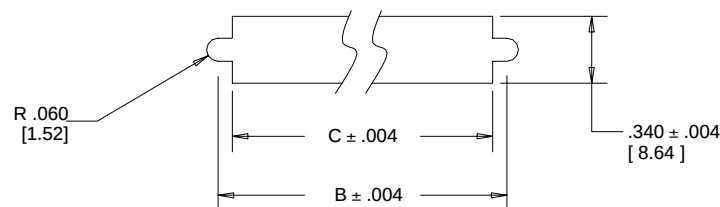
For 20 & 36 Position only



For 26 & 50 Position only



Note: Plated through holes for .062" board thickness



Recommended Panel Cut-Out

Note: Panel thickness .079 [2.00] Max.

TS-0620-07
 Sheet 4 of 4

Important Notice

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