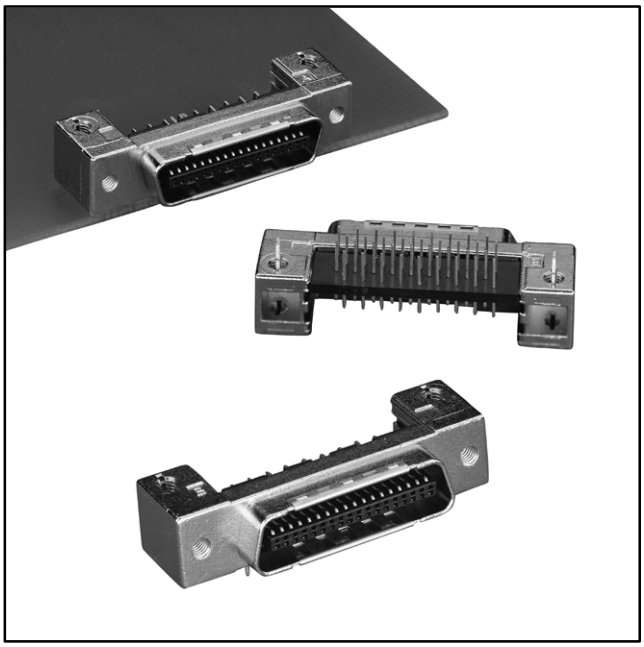
3M™ Mini D Ribbon (MDR) Connectors

.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

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 μm) Nickel — QQ-N-290, Class 2
Wiping Area: 30 μ″ (0.76 μm) 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

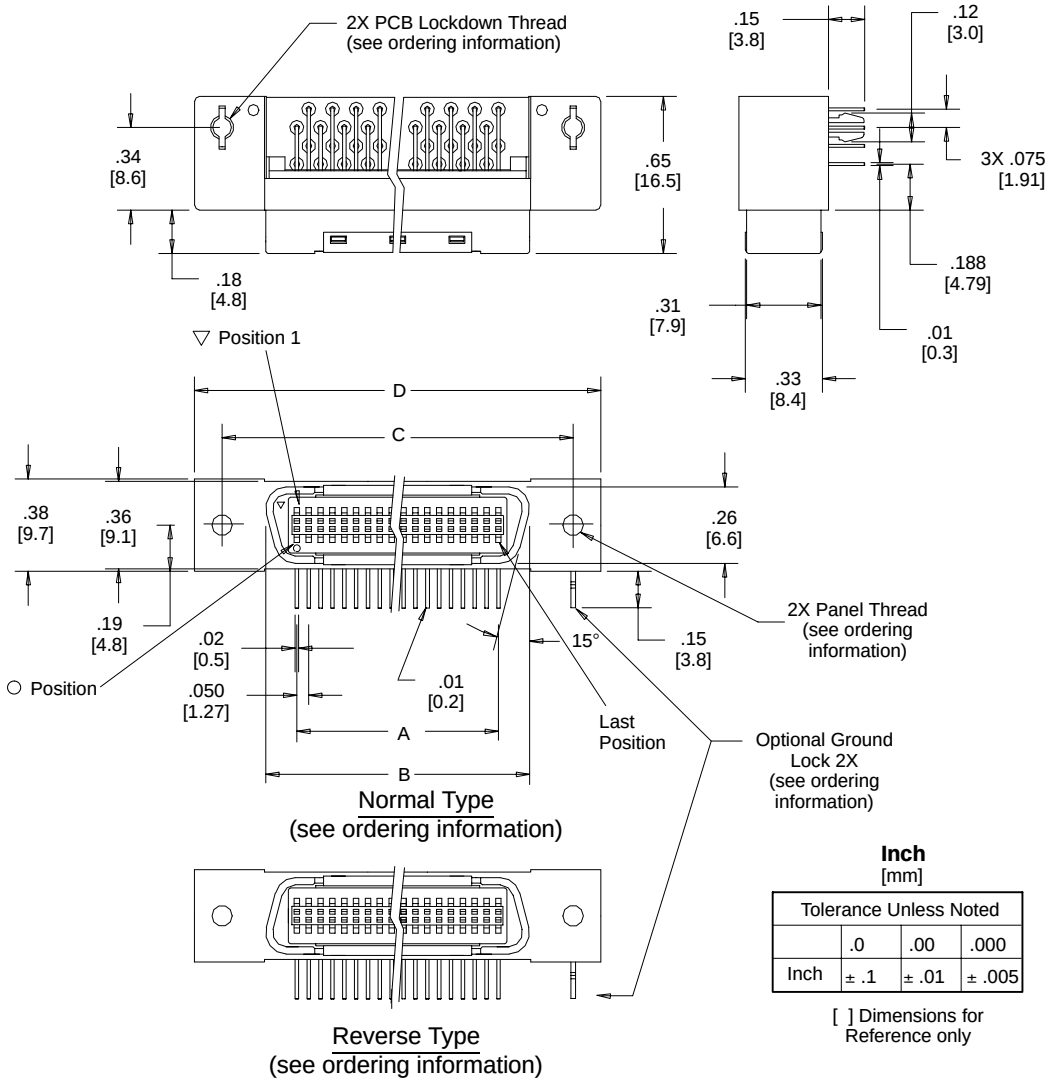
Temperature Rating: –20°C to +85°C

UL File No.: E68080

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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]



Inch
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	± .1	± .01	± .005

[ ] Dimensions for
Reference only

Ordering Information

101XX-X2X2VC

Contact Quantity

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

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

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

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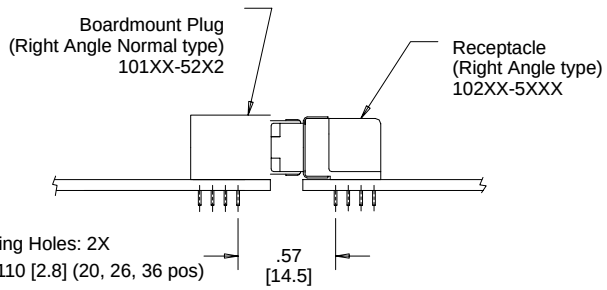
3M™ Mini D Ribbon (MDR) Connectors

.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]

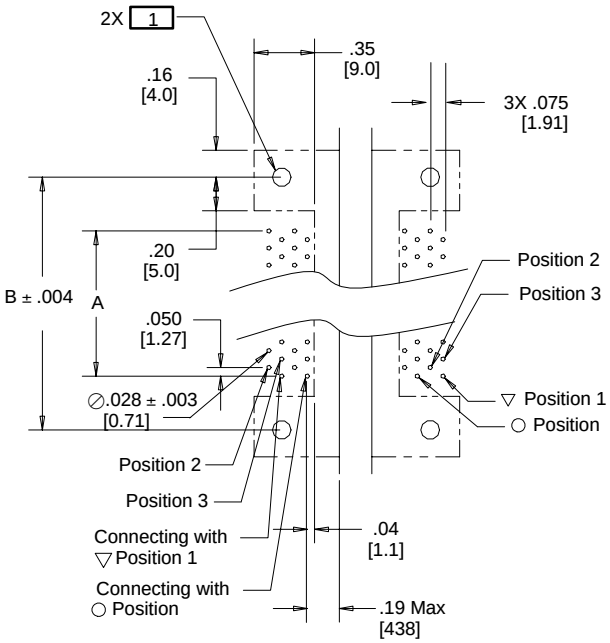
Recommended Board Layout (Normal Type Plug)

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

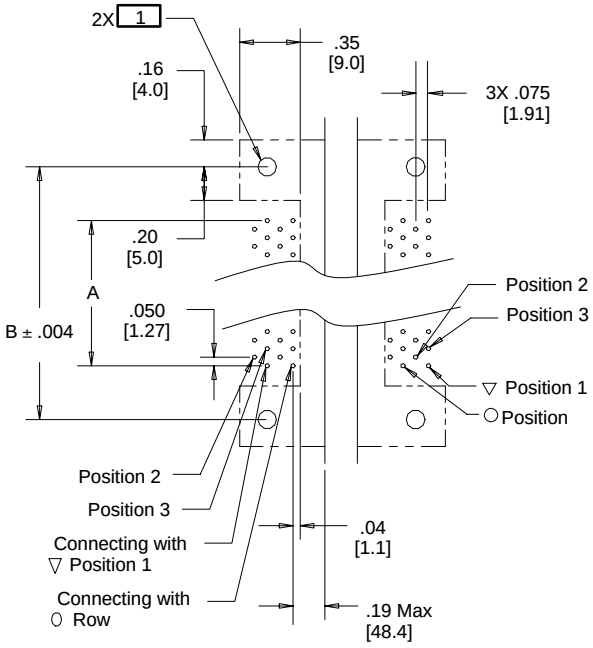


1 PC Boardmounting Holes: 2X
Screw Lock ⊘ .110 [2.8] (20, 26, 36 pos)
Ground Lock ⊘ .100 [2.6]
Screw Lock ⊘ .120 [3.0] (50 pos)

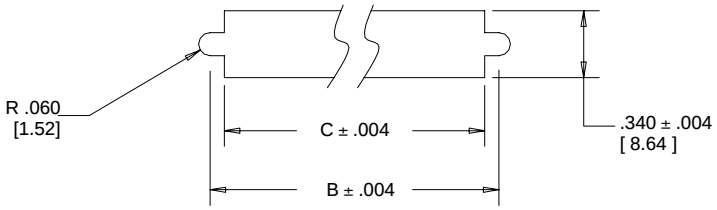
For 20 & 36 Position only



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

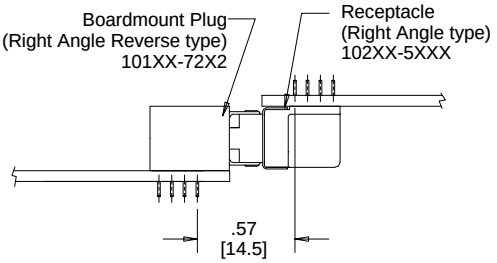
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For technical, sales or ordering information call
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Contact Quantity	Dimensions	
	A	B
20	.450 [11.43]	1.081 [27.45]
26	.600 [15.24]	1.231 [31.26]
36	.850 [21.59]	1.481 [37.61]
50	1.200 [30.48]	1.831 [46.50]

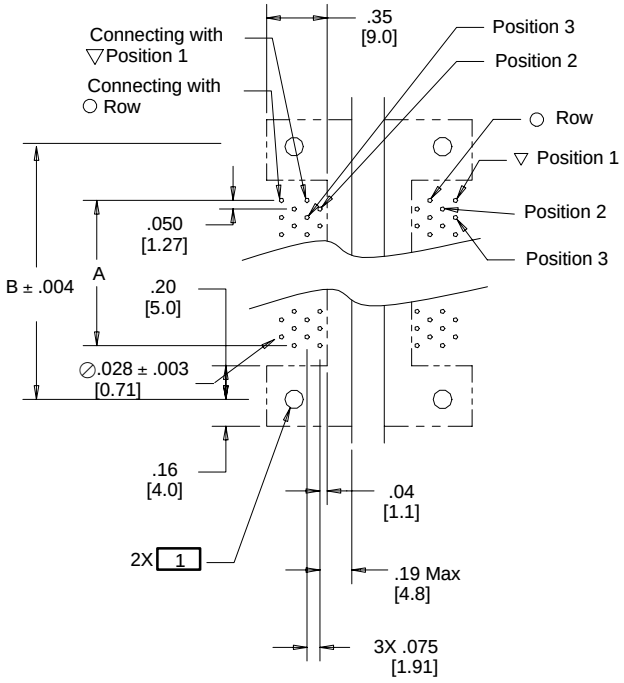
Recommended Board Layout (Reverse Plug)

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

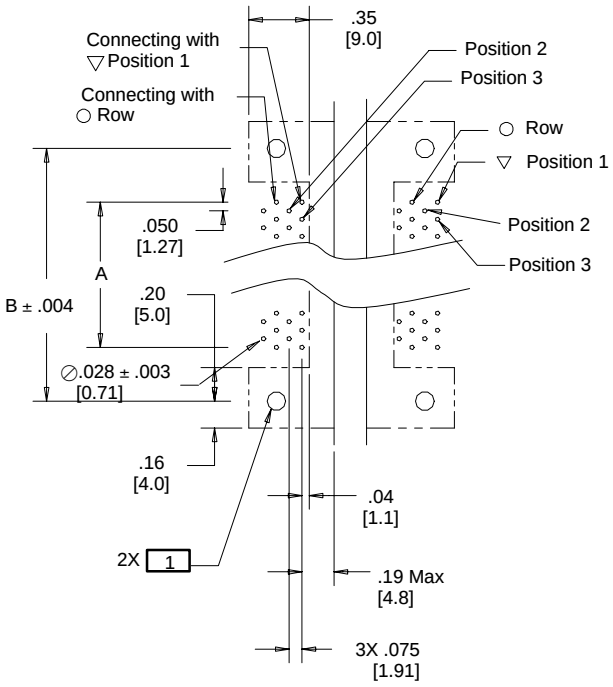


1 PC Boardmounting Holes: 2X
Screw Lock ⊘ .110 [2.8] (20, 26, 36 pos)
Ground Lock ⊘ .100 [2.6]
Scre Lock ⊘ .120 [3.0] (50 pos)

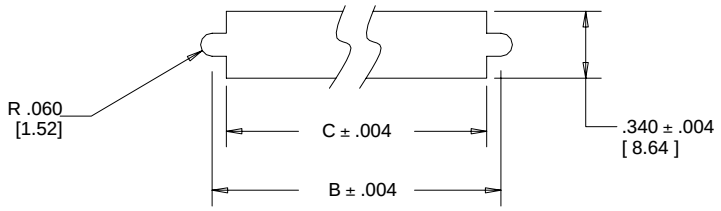
For 20 & 36 Position only



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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