

# 3M™ Mini D Ribbon (MDR) Connectors

.050" Boardmount Through-Hole R. A. Condo Receptacle – Shielded

102 Series



- Wiper-on-wiper contact for reliable repetitive plugging
- Rugged die cast metal case construction
- Screw lockdown for reliable PCB retention
- Interface latch design for connection stability
- Stacked receptacles save board space
- Contacts: 40 (2 x 20), 100 (2 x 50) and 136 (2 x 68)
- Regulatory Information: Visit 3M.com/regs or contact your 3M representative to find the RoHS compliance status of the 3M part you are interested in.

Date Modified: October 24, 2019

TS-0671-D  
Sheet 1 of 3

## Physical

**Insulation Material:** Glass Reinforced Polyester (PBT)

Flammability: UL 94V-0

Color: Black

**Contact Material:** Copper Alloy

### Plating

Underplating: 80  $\mu$ " [2.0  $\mu$ m] Nickel

Wiping Area: 20  $\mu$ " [0.50  $\mu$ m] Min. Gold

Solder Tail Plating: Gold flash over Nickel

**Body Material:** Zinc Alloy

Plating: Nickel

### Shroud & Latch Hook

Material: Steel

Plating: Nickel

Other Materials: Zinc Die Cast (Ground Lock), Stainless Steel (Joint Plate)

**Marking:** 3M Logo and Part Number

## Electrical

**Current Rating:** 1 A

**Insulation Resistance:**  $>5 \times 10^8 \Omega$  at 500 V<sub>DC</sub>

**Withstanding Voltage:** 500 V<sub>RMS</sub> for 1 Minute

## Environmental

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

**Process Rating:** Solder Dip Test – 260°C for 10 secs., two times after 100°C max. preheat, 60 sec. max. duration.

UL File No.: E68080

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

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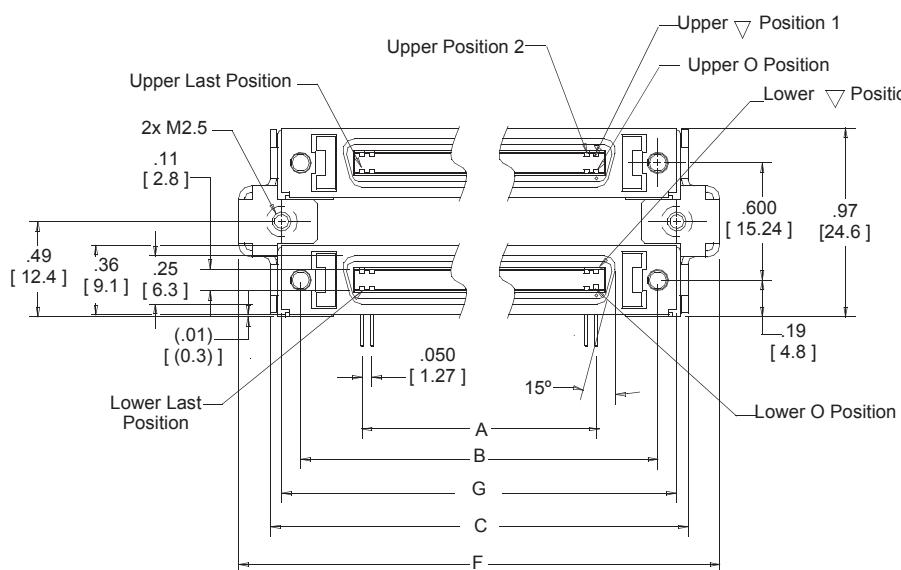
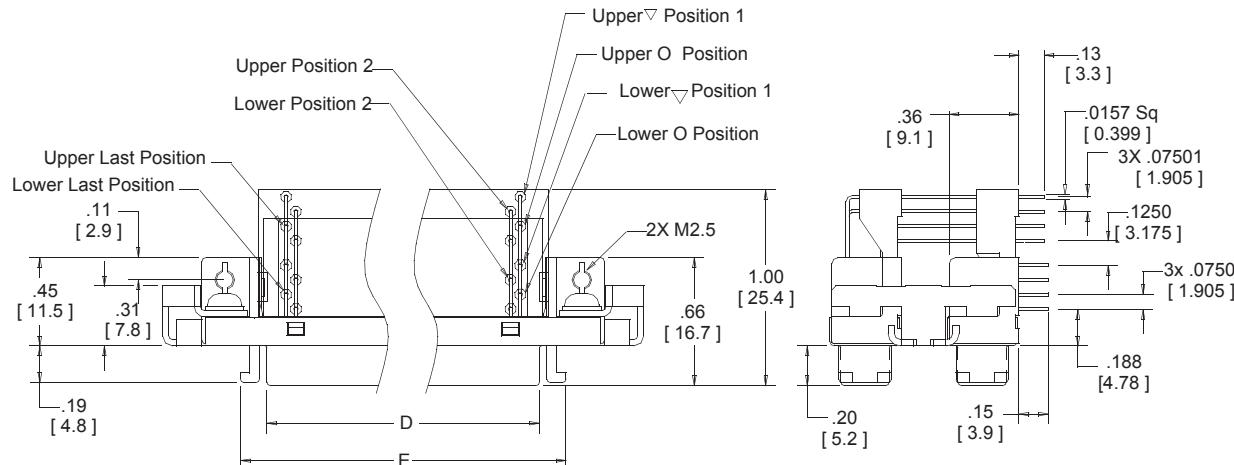
For technical, sales or ordering information call  
**800-225-5373**

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Contact Quantity	Dimensions						
	A	B	C	D	E	F	G
20	0.450 [ 11.43 ]	1.08 [ 27.5 ]	1.41 [ 35.8 ]	0.65 [ 16.4 ]	0.92 [ 23.4 ]	1.74 [ 44.2 ]	1.276 [ 32.4 ]
50	1.200 [ 30.48 ]	1.831 [ 46.5 ]	2.17 [ 55.0 ]	1.40 [ 35.5 ]	1.67 [ 42.4 ]	2.47 [ 62.7 ]	2.03 [ 51.5 ]
68	1.650 [ 41.91 ]	2.281 [ 57.93 ]	2.61 [ 66.4 ]	1.85 [ 46.9 ]	2.12 [ 53.8 ]	2.92 [ 74.1 ]	2.48 [ 62.9 ]



Tolerance Unless Noted			
inch	.0	.00	0.00
inch	±.1	±.01	±.005

[ ] Dimensions for Reference Only



## Ordering Information

102XX - M218PE

Contact Quantity: —

20 - 2 x 20 = 40 Contacts

50 - 2 x 50 = 100 Contacts

68 - 2 x 68 = 136 Contacts

TS-0671-D  
Sheet 2 of 3

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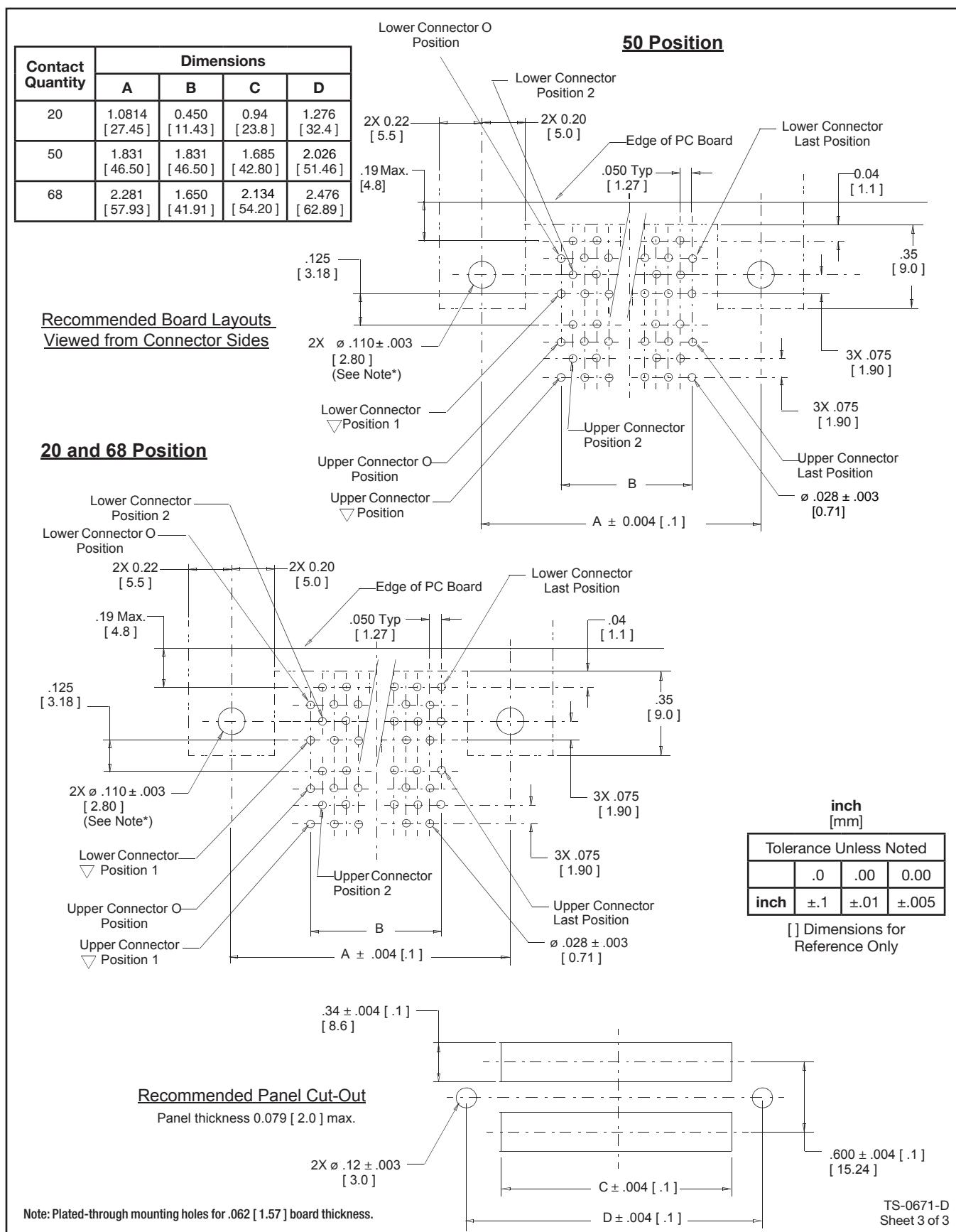
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