



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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 × 20), 100 (2 × 50) and 136 (2 × 68)
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: May 20, 2010

TS-0671-C
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Physical

Insulation Material: Glass Reinforced Polyester (PBT)

Flammability: UL 94V-0

Color: Black

Contact Material: Copper Alloy

Plating

Underplating: 80 μ" [2.0 μm] Nickel

Wiping Area: 20 μ" [0.50 μm] Min. Gold

Solder Tail Plating: Gold flash over Nickel (RIA E1 & C1 apply)

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_{DC}

Withstanding Voltage: 500 V_{RMS} 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

3M

Electronic Solutions Division
Interconnect Solutions
<http://www.3Mconnector.com>

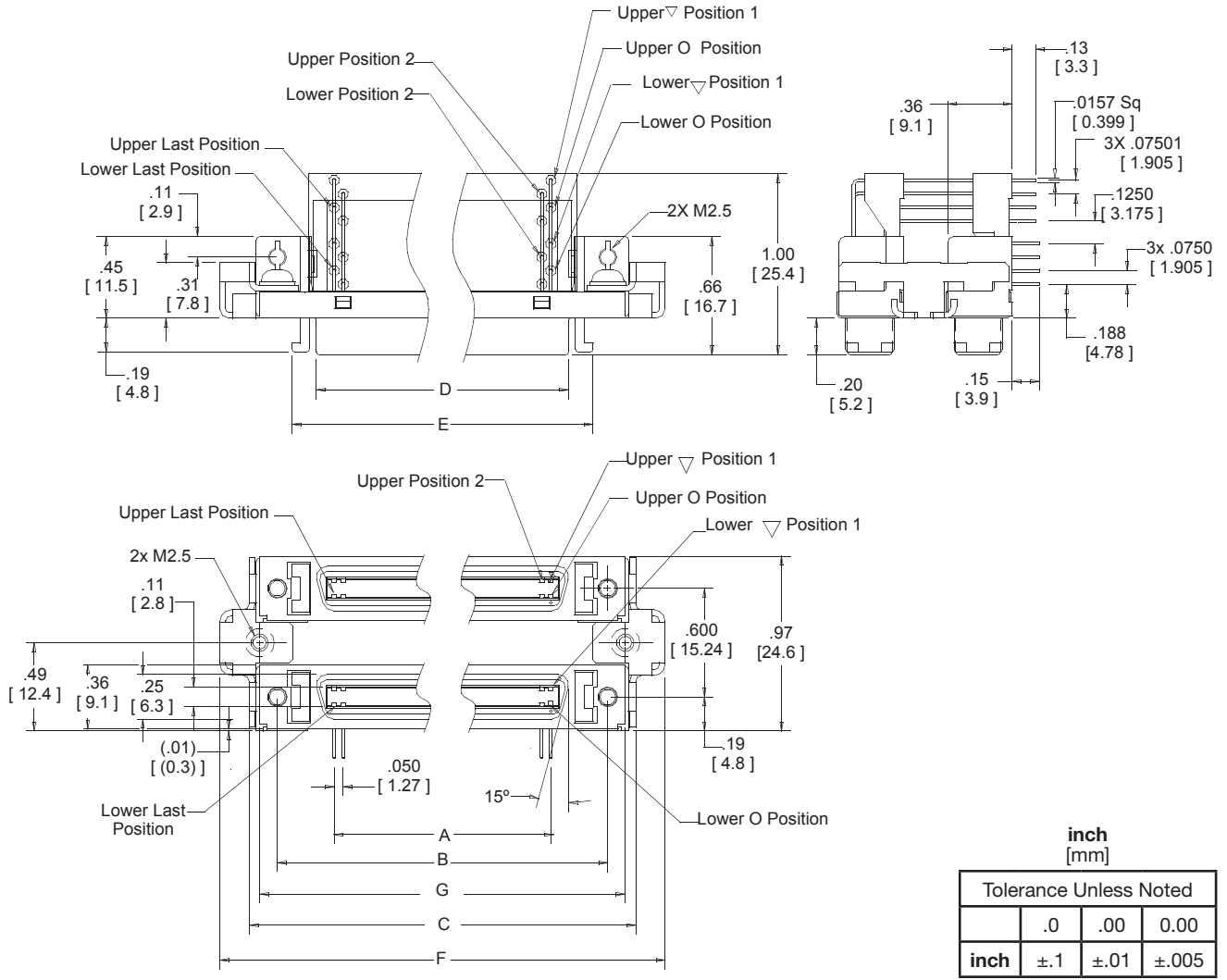
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3M™ Mini D Ribbon (MDR) Connectors

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

102 Series

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			
	.0	.00	0.00
inch	±.1	±.01	±.005

[] Dimensions for Reference Only



Ordering Information

102XX - M218PE

Contact Quantity: _____
 20 - 2 × 20 = 40 Contacts
 50 - 2 × 50 = 100 Contacts
 68 - 2 × 68 = 136 Contacts

3M™ Mini D Ribbon (MDR) Connectors

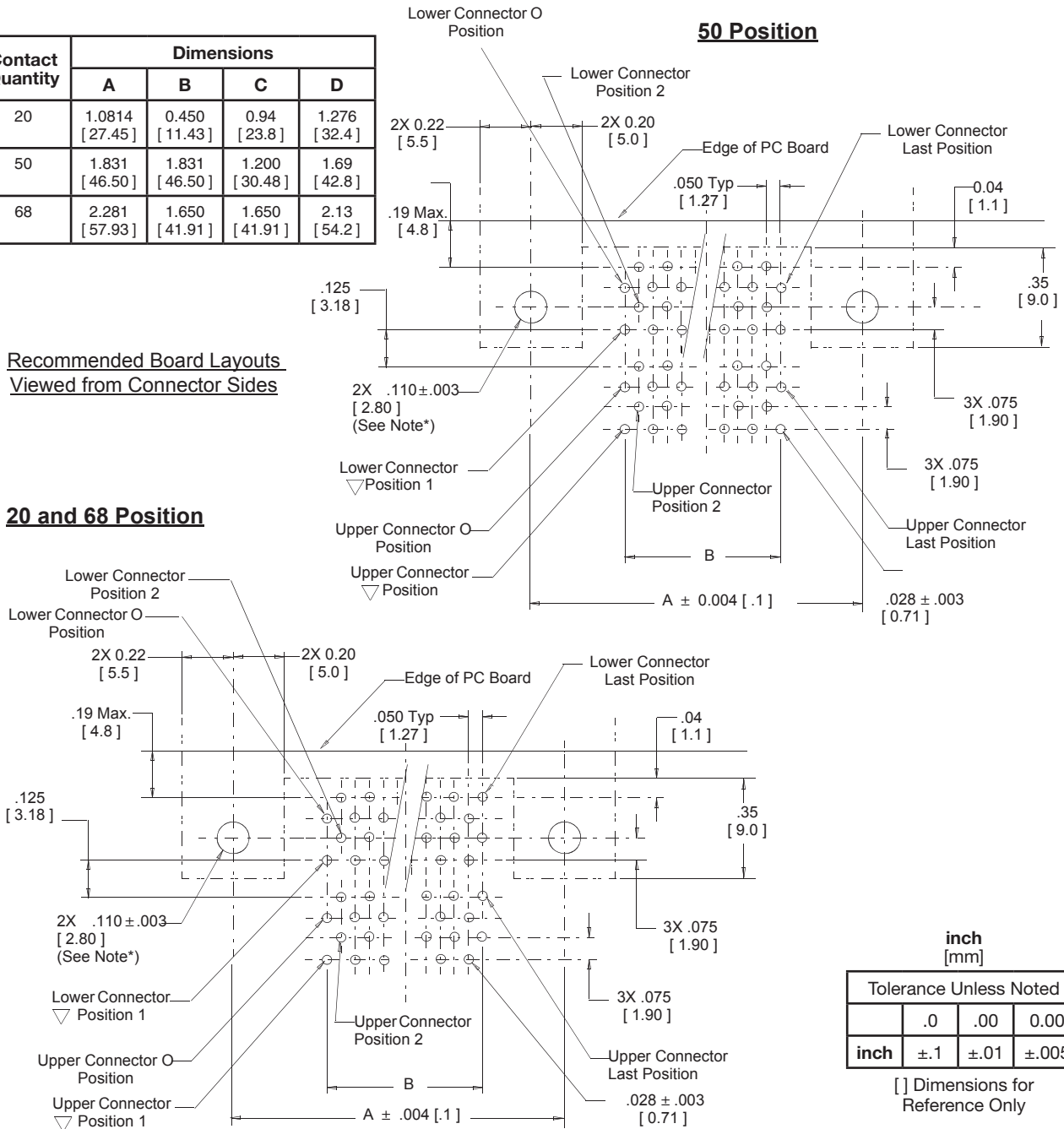
.050" Boardmount Through-Hole R. A. Condo Receptacle – Shielded

102 Series

Contact Quantity	Dimensions			
	A	B	C	D
20	1.0814 [27.45]	0.450 [11.43]	0.94 [23.8]	1.276 [32.4]
50	1.831 [46.50]	1.831 [46.50]	1.200 [30.48]	1.69 [42.8]
68	2.281 [57.93]	1.650 [41.91]	1.650 [41.91]	2.13 [54.2]

Recommended Board Layouts Viewed from Connector Sides

20 and 68 Position

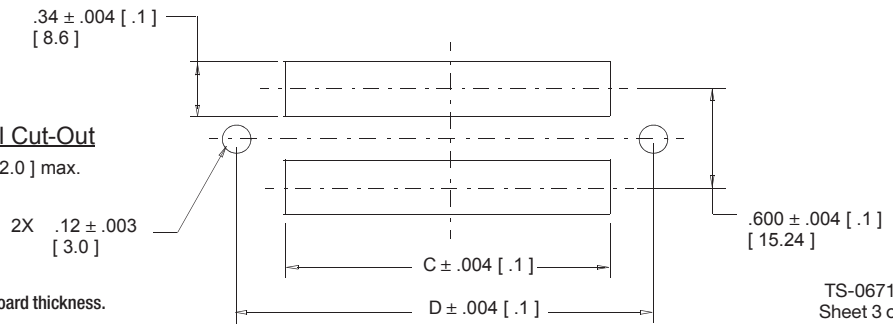


Tolerance Unless Noted			
	.0	.00	0.00
inch	±.1	±.01	±.005

[] Dimensions for Reference Only

Recommended Panel Cut-Out

Panel thickness 0.079 [2.0] max.



Note: Plated-through mounting holes for .062 [1.57] board thickness.

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**3M Electronics Solutions Division**

6801 River Place Blvd.
Austin, TX 78726-9000
U.S.A.
1-800-225-5373
www.3Mconnector.com

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