



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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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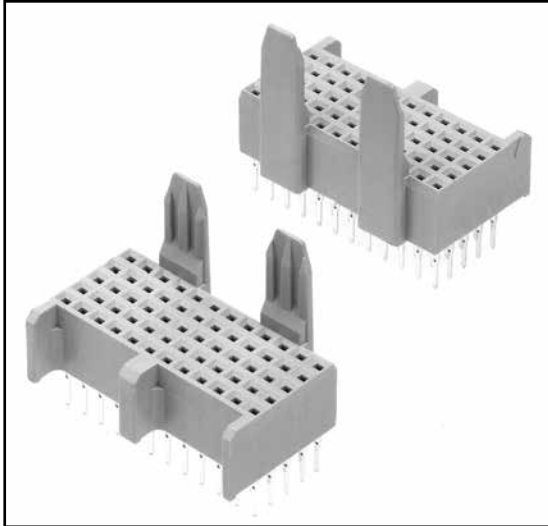
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



3M™ MetPak™ 2-FB Inverse Socket

2 mm 5-Row, Vertical, Solder or Press-Fit Tail

MP2 Series



- Guiding alignment feature eliminates bent pins on backplane
- Footprint compatible with standard Futurebus+®
- Ideal for hot swapping
- End-to-end stackable
- Vertical socket on backplane
- Offset dual-beam contact minimizes insertion force
- Mates with MP2-P and MP2-PS Series
- Rear plug-up tails for midplane applications
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: September 17, 2013

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Physical

Insulation:

Material: High Temp LCP
Flammability: UL 94V-0
Color: Beige

Contact:

Material: Copper Alloy

Plating:

Underplating: 50 μ" [1.27 μm) Nickel
Wiping Area: See Ordering Information
Solder Tails: See Ordering Information

Electrical

Current Rating: Signal: 1.5 A – All contacts simultaneously

Insulation Resistance: 10³ MΩ

Withstanding Voltage: 1000 V_{AC}

Environmental

Temperature Rating: -55°C to +125°C

UL File No.: E68080

MetPak is a trademark of 3M Company.
Futurebus+ is a registered trademark of the Institute of Electrical and Electronic Engineers, Inc. (IEEE)

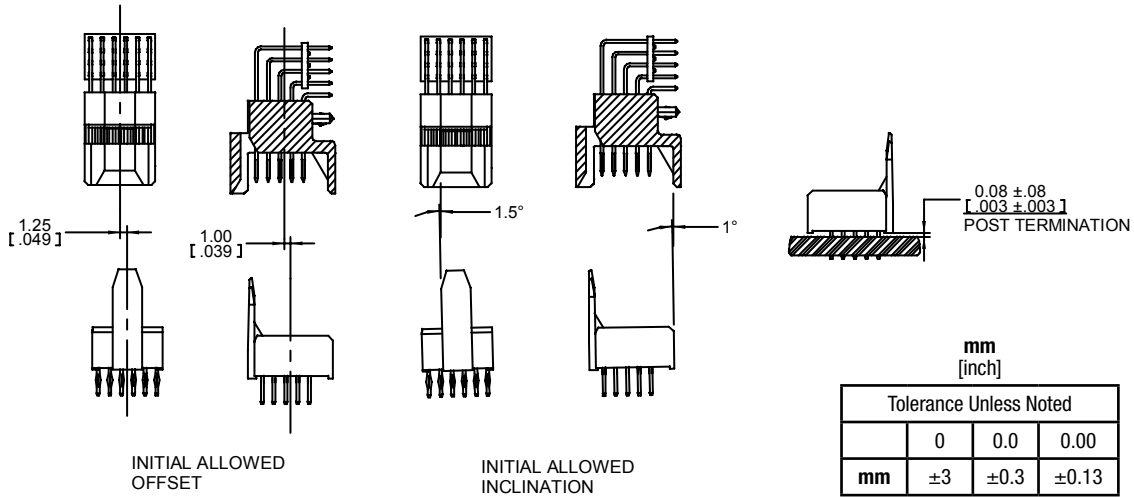
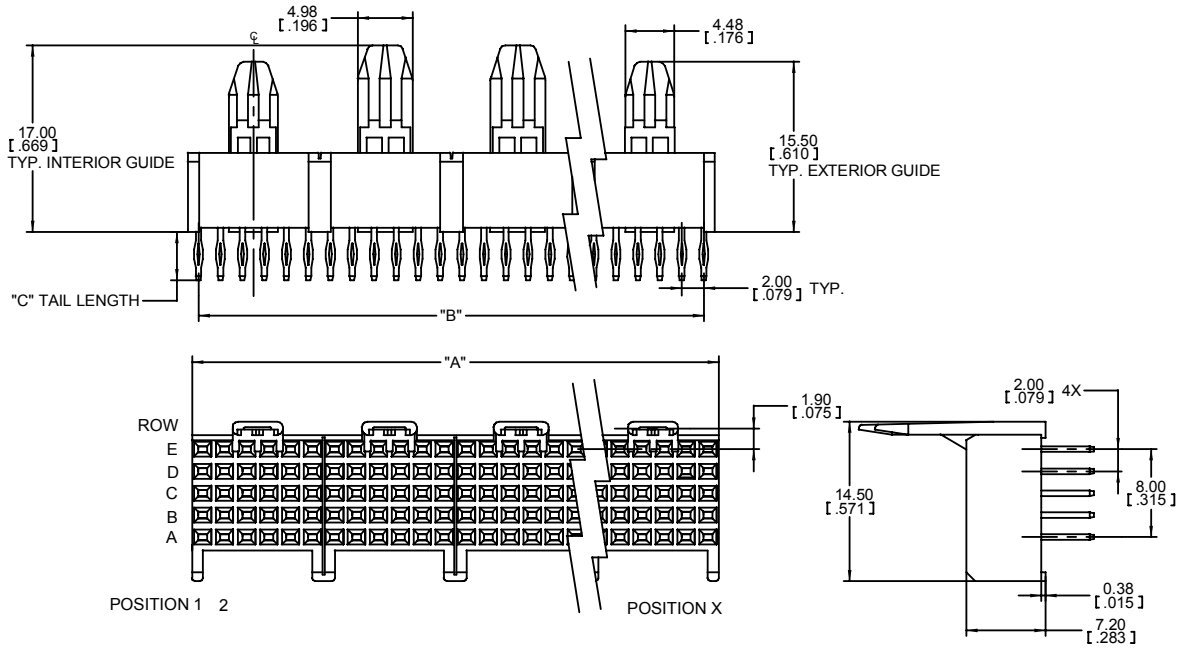
3M
Electronic Solutions Division
Interconnect Solutions
<http://www.3Mconnectors.com>

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

3M™ MetPak™ 2-FB Inverse Socket

2 mm 5-Row, Vertical, Solder or Press-Fit Tail

MP2 Series



Tolerance Unless Noted		
	mm	[inch]
	0	0.0
mm	±3	±0.3
	0.00	±0.13

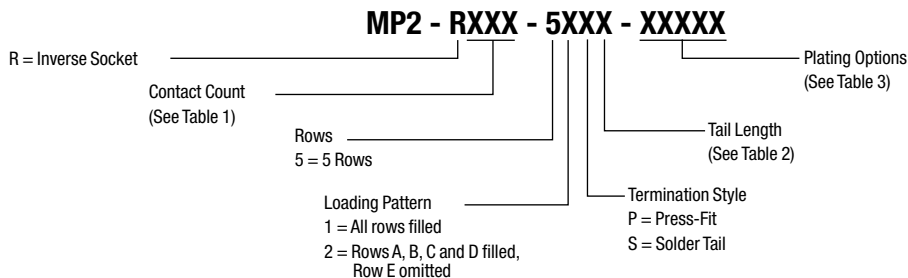
[] Dimensions for Reference Only



Notes:

1. For special contact loading pattern, contact 3M.
2. Refer to IEC 61076-4-104 Futurebus+® global standard.
3. "Press Fit" describes a contact tail having a compliant section designed to make a reliable electrical connection with a plated through-hole (PTH) in a printed circuit board, typically a "back plane."

Ordering Information



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Electronic Solutions Division
Interconnect Solutions
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MP2 Series

Pin Count	Dim. "A" mm [inch]	Dim "B" mm [inch]	Rows	Block Count
030	11.95 [0.471]	10.00 [0.394]	5	1
060	23.95 [0.943]	22.00 [0.866]	5	2
090	35.95 [1.415]	34.00 [1.339]	5	3
120	47.95 [1.889]	46.00 [1.811]	5	4
150	59.95 [2.36]	58.00 [2.283]	5	5
180	71.95 [2.833]	70.00 [2.756]	5	6
210	83.95 [3.305]	82.00 [3.228]	5	7
240	95.95 [3.778]	94.00 [3.701]	5	8
270	107.95 [4.251]	106.00 [4.173]	5	9
300	119.95 [4.722]	118.00 [4.646]	5	10

Contact-to-PC Board Tail Termination Option No.		Dim. "C"
Solder	Press-Fit*	
1	1	4.35 [0.171]

*Compliant-Pin Tail

Plating Suffix	Press-Fit Tails*	Solder Tails	Plating Composition
KR	RIA E1 & C1 apply	RIA E1 & C1 apply	0.76 μm [30 μm] Min. Au Contact Area 2.54 μm [100 μm] Min. Matt Whisker Mitigating Sn Tail Area 1.27 μm [50 μm] Min. Ni all over
LR	RIA E1 & C1 apply	RIA E1 & C1 apply	0.08 μm [3 μm] Min. Au Contact Area 0.67 μm [27 μm] Min. PdNi Contact Area 2.54 μm [100 μm] Min. Matt Whisker Mitigating Sn Tail Area 1.27 μm [50 μm] Min. Ni all over

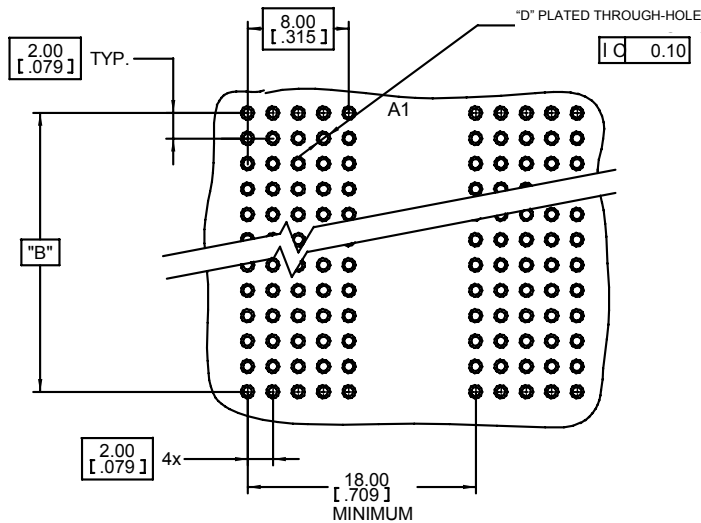
*Compliant-Pin Tail

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3M™ MetPak™ 2-FB Inverse Socket

2 mm 5-Row, Vertical, Solder or Press-Fit Tail

MP2 Series



mm [inch]		
Tolerance Unless Noted		
	0.0	0.00
mm	±0.3	±0.25

[] Dimensions for Reference Only



RECOMMENDED PRESS-FIT AND SOLDER TAIL PCB HOLE MOUNTING PATTERN

Table 4 - HOLE PLATING FINISHES

HOLE	Finished Dia. MM [in]	Cu Thickness [mm [in]	Immersion Matte Sn Thickness microns [μ"]	Electrolytic Au Thickness microns [μ"]	OSP ENTEK Thickness microns [μ"]	Drilled Hole Dia. mm [in]
"D"	0.700-0.800 [0.0276-.0315]	0.025-0.045 [0.001-0.002]	0.5 - 2.5 [20 - 100]	0.1 - 0.5 [4 - 20]	0.2 - 0.5 [8 - 20]	0.830-0.860 [0.0330-.0340] or 0.85 mm [#66] TWIST DRILL

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