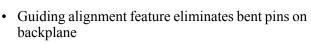
# 3M<sup>™</sup> MetPak<sup>™</sup> 2-FB Inverse Socket

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



- 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

TS-1121-C Sheet 1 of 4

**MP2 Series** 

### **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

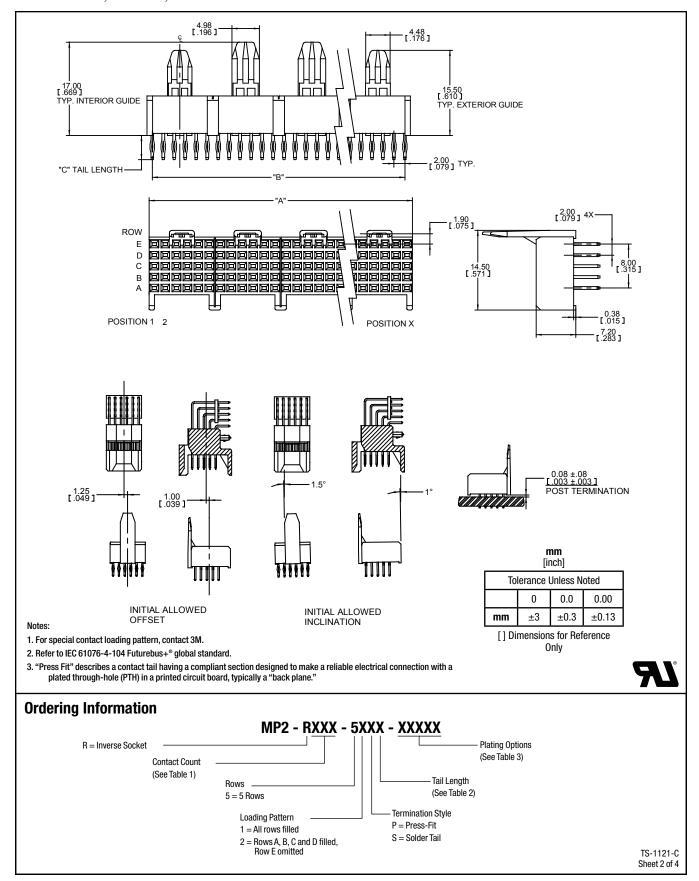
**Insulation Resistance:**  $10^3 M\Omega$ **Withstanding Voltage:**  $1000 V_{AC}$ 

#### **Environmental**

**Temperature Rating:** -55°C to +125°C

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

UL File No.: E68080



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

Table 1 - Connector & Row Lengths					
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	

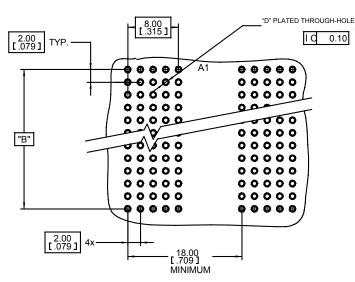
Table 2 - Tail Length				
Contact-to-PC Board Tail Termination Option No.		Dim. "C"		
Solder	Press-Fit*			
1	1	4.35 [0.171]		

<sup>\*</sup>Compliant-Pin Tail

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

<sup>\*</sup>Compliant-Pin Tail

TS-1121-C Sheet 3 of 4



[] 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 [.02760315]	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 [.0330- .0340] or 0.85 mm [#66] TWIST DRILL	

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