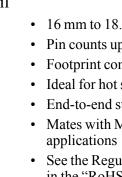
# 3M<sup>™</sup> MetPak<sup>™</sup> 2-FB Inverse Header

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



**MP2 Series** 

- 16 mm to 18.5 mm high-profile stacking
- Pin counts up to 300
- Footprint compatible with standard Futurebus+®
- Ideal for hot swapping applications
- End-to-end stackable
- Mates with MP2-R Series for parallel stacking
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnectors.com for compliance information (RIAE1 & 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:**  $10^3 M\Omega$ Withstanding Voltage: 1000 V<sub>AC</sub>

#### **Environmental**

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

**Process Temperature Rating:** 260°C (Profile per J-STD-020C)

**Moisture Sensitivity Level:** 1 (per J-STD-020C)

MetPak is a trademark of 3M Company. Futurebus+ is a registered trademark of the Institute of Electrical and Electronic Engineers, Inc. (IEEE) 2 mm 5-Row, Stacking, Solder or Press-Fit Tail

**MP2 Series** 

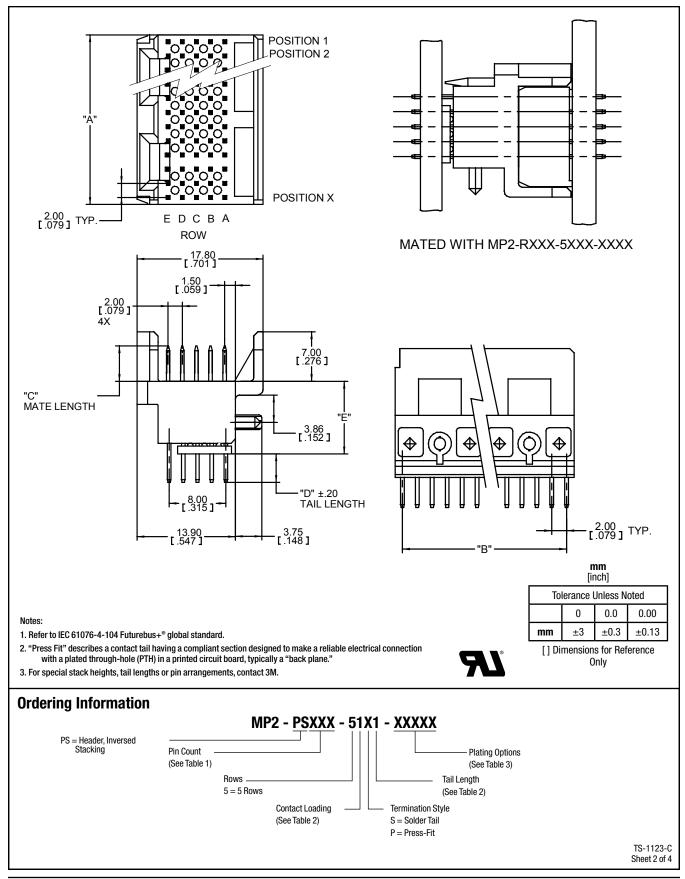


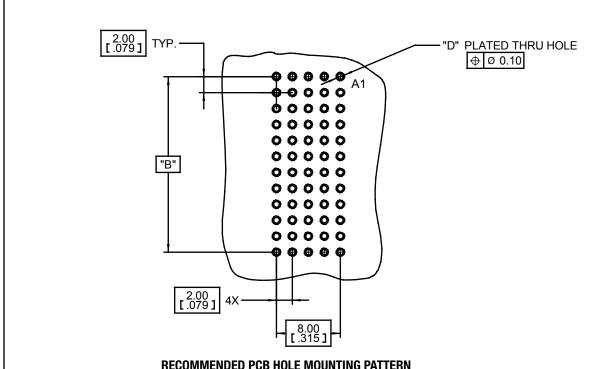
Table 1 - Connector & Row Lengths					
Pin Count	Dim. "A" mm [inch]	Dim "B" mm [inch]	Rows		
030	11.95 [0.471]	10.00 [0.394]	5		
060	23.95 [0.943]	22.00 [0.866]	5		
090	35.95 [1.415]	34.00 [1.339]	5		
120	47.95 [1.889]	46.00 [1.811]	5		
150	59.95 [2.36]	58.00 [2.283]	5		
180	71.95 [2.833]	70.00 [2.756]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

Table 2						
Contact-to-PC Board Tail Termination Option No.		Dim. "C"	Dim. "D"	Dim. "E"		
Solder Tail	Press-Fit* Tail	1				
1		4.65 [0.183]	4.15 [0.163]	10.25 [0.404]		
	1	5.00 [0.197]	3.95 [0.156]	10.25 [0.404]		

Table 3 - Plating				
Plating Suffix	Press-Fit Tails*	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	

\*Compliant-Pin Tail

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Table 4 - HOLE PLATING FINISHES						
HOLE Finished Dia. 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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