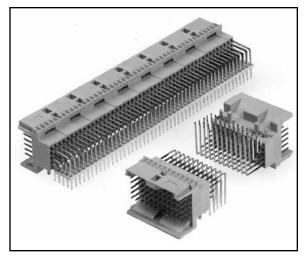
# 3M<sup>TM</sup> MetPak<sup>TM</sup> 2-FB Inverse Header

### 2 mm 5-Row, Right Angle, Solder Tail





- Three levels of early mate, late break (EMLB)
- sequencing or selective loading options
- Footprint compatible with standard Futurebus+®
- Solder tail with true-position wafer
- Ideal for hot swapping applications
- End-to-end stackable
- Right angle male for daughter card
- Mates with MP2-R for backplane applications and MP2-SXXXG for coplanar applications
- RoHS Compliant. 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
<b>Contact:</b>	
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 simultaneouslyInsulation Resistance: $10^3 M\Omega$ Withstanding Voltage: $1000 V_{AC}$ 

#### Environmental

Temperature Rating:-55°C to +125°CProcess Temperature Rating:260°C (Profile per J-STD-020C)Moisture Sensitivity Level:1 (per J-STD-020C)

UL File No.: E68080

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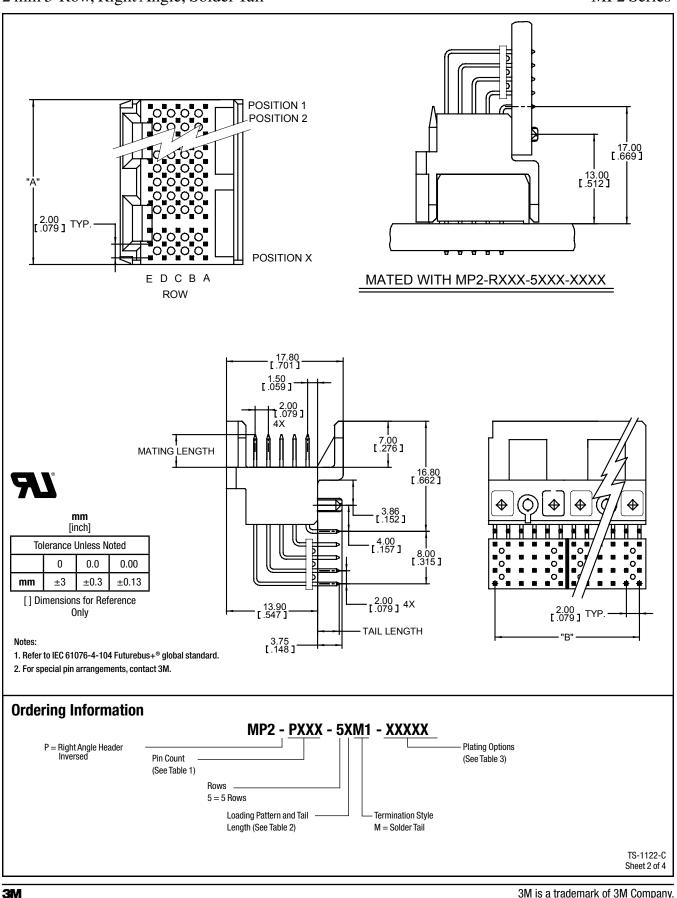
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## $3M^{\text{TM}}$ MetPak<sup>TM</sup> 2-FB Inverse Header

### 2 mm 5-Row, Right Angle, Solder Tail

MP2 Series



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## $3M^{\text{TM}}$ MetPak<sup>TM</sup> 2-FB Inverse Header

2 mm 5-Row, Right Angle, Solder Tail

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		
420	167.95 [6.612]	166.00 [6.535]	5		

	Table 2 - Mate & Tail Lengths, mm vs. Loading Pattern										
Loading Pattern Code	Description	Mate Length Row A	Mate Length Row B	Mate Length Row C	Mate Length Row D	Mate Length Row E	Tail Length Row A	Tail Length Row B	Tail Length Row C	Tail Length Row D	Tail Length Row E
1	All Positions Filled	5.00	5.00	5.00	5.00	5.00	3.30	3.30	3.30	3.30	3.30
2	All Positions Filled	4.25	5.00	5.00	5.00	5.00	4.05	3.30	3.30	3.30	3.30
3	All Positions Filled	3.50	4.25	4.25	5.00	5.00	4.80	4.05	4.05	3.30	3.30
4	All Positions Filled	4.25	5.00	4.25	4.25	4.25	4.05	3.30	4.05	4.05	4.05
5	Rows A, B, C and D Filled	5.00	5.00	5.00	5.00	NA	3.30	3.30	3.30	3.30	NA
6	Rows A, B, C and D Filled	5.00	4.25	4.25	5.00	NA	3.30	4.05	4.05	3.30	NA
7	All Positions Filled	4.25	5.00	4.25	5.00	4.25	4.05	3.30	4.05	3.30	4.05
8	All Positions Filled	4.25	4.25	4.25	4.25	4.25	4.05	4.05	4.05	4.05	4.05
9	All Positions Filled	5.00	3.50	3.50	3.50	4.25	3.30	4.80	4.80	4.80	4.05
А	All Positions Filled	3.75	4.50	5.25	4.50	3.75	4.55	3.80	3.05	3.80	4.55
В	All Positions Filled	3.75	4.50	3.75	4.50	3.75	4.55	3.80	4.55	3.80	4.55
С	All Positions Filled	5.75	5.75	5.75	5.75	5.75	2.55	2.55	2.55	2.55	2.55
D	All Positions Filled	4.25	5.00	5.75	5.00	4.25	4.05.	3.30	2.55	3.30	4.05
Е	All Positions Filled	5.00	5.75	5.75	5.75	5.00	4.05	4.05	4.05	4.05	4.05
G	Rows A, B, C and D Filled	5.00	4.25	4.25	5.00	NA	3.30	4.05	4.05	3.30	NA

Table 3 - Plating		
Plating Suffix	Plating Composition	
KR (RIA E1 & C1 apply)	0.76 μm [30 μ"] Min. Au Contact Area	
	2.54 $\mu m$ [100 $\mu$ "] Min. Matt Whisker Mitigating Sn Tail Area	
	1.27 μm [50 μ"] Min. Ni all over	
LR (RIA E1 & C1 apply)	0.08 μm [3 μ"] Min. Au Contact Area	
	0.67 μm [27 μ"] Min. PdNi Contact Area	
	2.54 $\mu m$ [100 $\mu$ "] Min. Matt Whisker Mitigating Sn Tail Area	
	1.27 μm [50 μ"] Min. Ni all over	

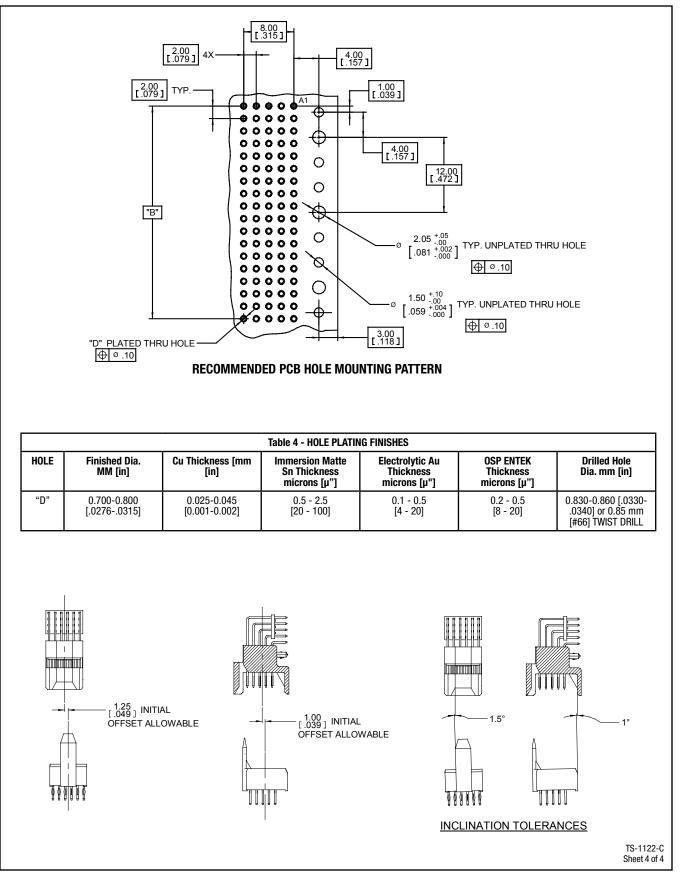
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## $3M^{TM}$ MetPak $^{TM}$ 2-FB Inverse Header

2 mm 5-Row, Right Angle, Solder Tail



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