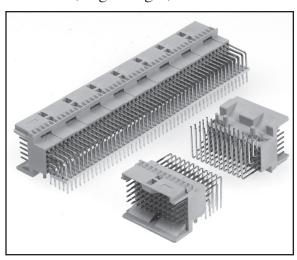
3M[™] MetPak[™] 2-FB Inverse Header

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.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: May 11, 2010

TS-1122-B Sheet 1 of 4

Physical

Insulation:

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

Color: Beige

Contact:

Material: Copper Alloy

Plating:

Underplating: 50μ " [1.27 μ m] 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

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)

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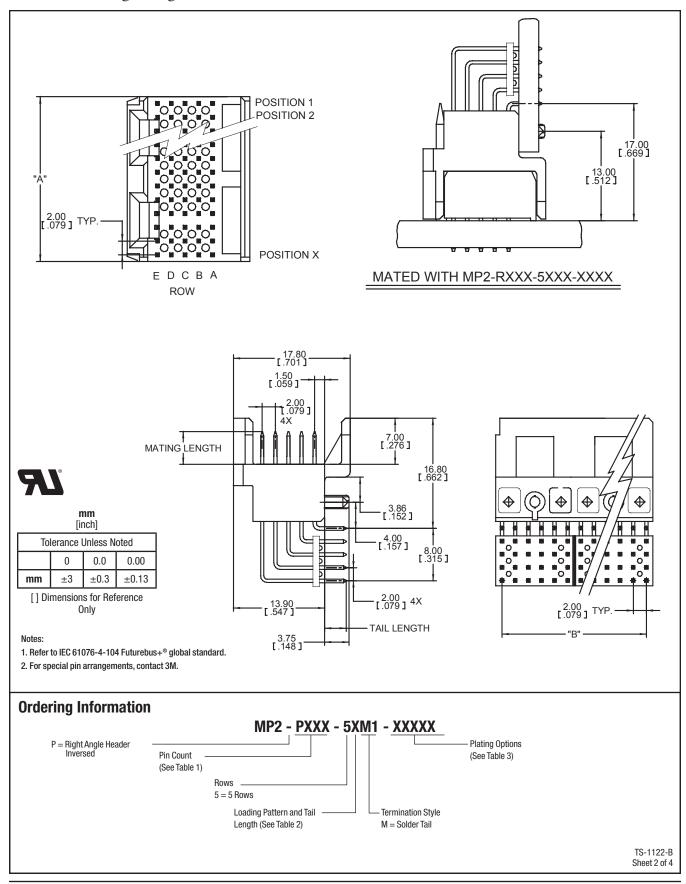
UL File No.: E68080

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3M[™] MetPak[™] 2-FB Inverse Header

2 mm 5-Row, Right Angle, Solder Tail

MP2 Series



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MP2 Series

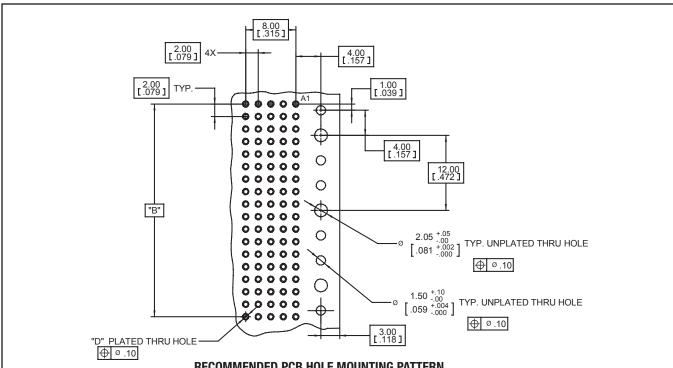
Table 1 - Connector & Row Lengths							
Pin Count	Dim."A" mm [inch]	Dim "B" mm [inch]	Rows				
030	11.95 [0.471]	10.00 [0.394]	5				
060	23.95 [0.943] 22.00 [0.866]		5				
090	35.95 [1.415]	34.00 [1.339]	5				
120	47.95 [1.889]	46.00 [1.811]	5				
150	59.95 [2.36]	58.00 [2.283]	5				
180	71.95 [2.833]	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	300 119.95 [4.722]		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
E	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 Suffix Plating Composition		Plating Composition					
	0.76 μm [30 μ"] Min. Au Contact Area		0.76 μm [30 μ"] Min. Au Contact Area					
TG30 (RIA E3 & C2 apply)	.54 μm [100 μ"] Min. SnPb Tail Area (RIA E1 & C1 apply) 2.54 μm [100 μ"] Min. Matt Whisker M		2.54 μm [100 μ"] Min. Matt Whisker Mitigating Sn Tail Area					
	1.27 μm [50 μ"] Min. Ni all over	(1.27 μm [50 μ"] Min. Ni all over					
	0.08 μm [3 μ"] Min. Au Contact Area		0.08 μm [3 μ"] Min. Au Contact Area					
TR30	0.67 μm [27 μ"] Min. PdNi Contact Area	LR	0.67 μm [27 μ"] Min. PdNi Contact Area					
(RIA E3 & C2 apply)	2.54 μm [100 μ"] Min. SnPb Tail Area	(RIA E1 & C1 apply)	2.54 μm [100 μ"] Min. Matt Whisker Mitigating Sn Tail Area					
	1.27 μm [50 μ"] Min. Ni all over		1.27 μm [50 μ"] Min. Ni all over					

TS-1122-B Sheet 3 of 4 2 mm 5-Row, Right Angle, Solder Tail

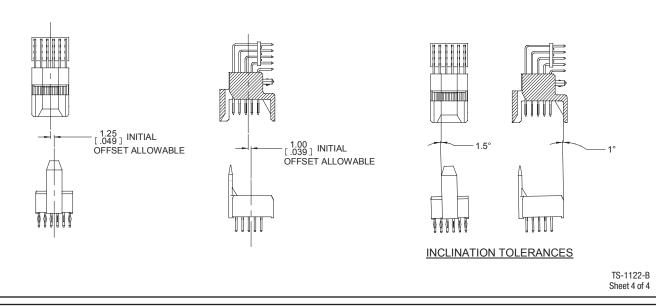
MP2 Series



RECOMMENDED PCB HOLE MOUNTING PATTERN

Table 4 – HOLE PLATING For TG30, TR30 FINISHES ONLY						
HOLE	Finished Dia. MM [in]	Cu Thickness [mm [in]	SnPb Thickness microns [µ"]	Drilled Hole Dia. mm [in]		
"D"	D" 0.65-0.80 [.02560315] 0.025 [.001] min.		15 [600] max.	0.81-0.86 [.03190339]		

	Table 5 – HOLE PLATING For KR and LR FINISHES ONLY								
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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