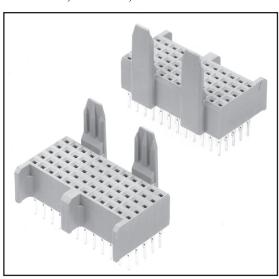
3M[™] MetPak[™] 2-FB Inverse Socket

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





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

Date Modified: May 13, 2010

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Physical

Insulation:

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

Contact:

Material: Copper Alloy

Plating:

Underplating: $50 \mu^{\text{m}} [1.27 \mu\text{m})$ 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

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

MP2 Series

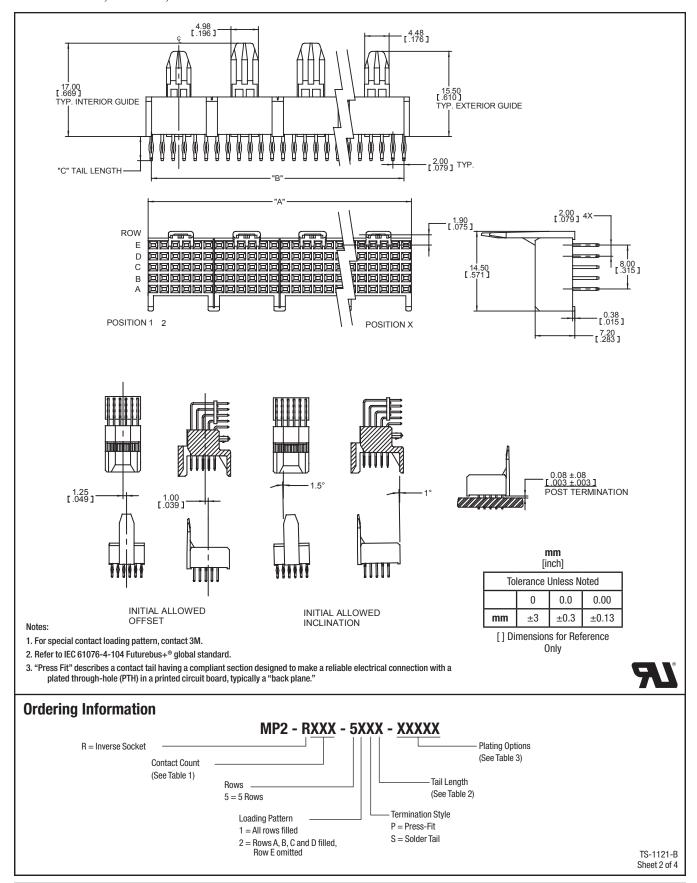


Table 1 - Connector & Row Lengths					
Pin Count	Dim."A" mm [inch]	Dim "B" mm [inch]	Rows	Block Count	
030	11.95 [0.471]	10.00 [0.394]	5	1	
060	23.95 [0.943]	22.00 [0.866]	5	2	
090	35.95 [1.415]	34.00 [1.339]	5	3	
120	47.95 [1.889]	46.00 [1.811]	5	4	
150	59.95 [2.36]	58.00 [2.283]	5	5	
180	71.95 [2.833]	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]	

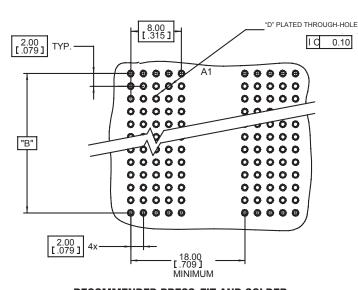
^{*}Compliant-Pin Tail

Table 3 - Plating & Regulatory				
Plating Suffix	Press-Fit Tails*	SolderTails	Plating Composition	
TG30	RIA E2 & C2 apply	RIA E3 & C2 apply	0.76 μm [30 μ"] Min. Au Contact Area 2.54 μm [100 μ"] Min. SnPb Tail Area 1.27 μm [50 μ"] Min. Ni all over	
TR30	RIA E2 & C2 apply	RIA E3 & C2 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. SnPb Tail Area 1.27 μm [50 μ"] Min. Ni all over	
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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MP2 Series



 $\begin{tabular}{c|c} \hline mm \\ [inch] \hline \hline Tolerance Unless Noted \\ \hline 0.0 & 0.00 \\ \hline mm & \pm 0.3 & \pm 0.25 \\ \hline \end{tabular}$

[] Dimensions for Reference Only



RECOMMENDED PRESS-FIT AND SOLDER	1
TAIL PCB HOLE MOUNTING PATTERN	

Table 4 – HOLE PLATING For TG30 and TR30 FINISHES ONLY					
HOLE Finished Dia. MM [in] Cu Thickness [mm [in]		SnPb Thickness microns [µ"]	Drilled Hole Dia. mm [in]		
"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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