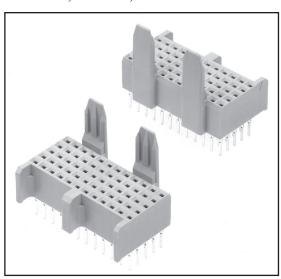
3M[™] MetPak[™] 2-FB Inverse Socket

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

TS-1121-B Sheet 1 of 4

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.

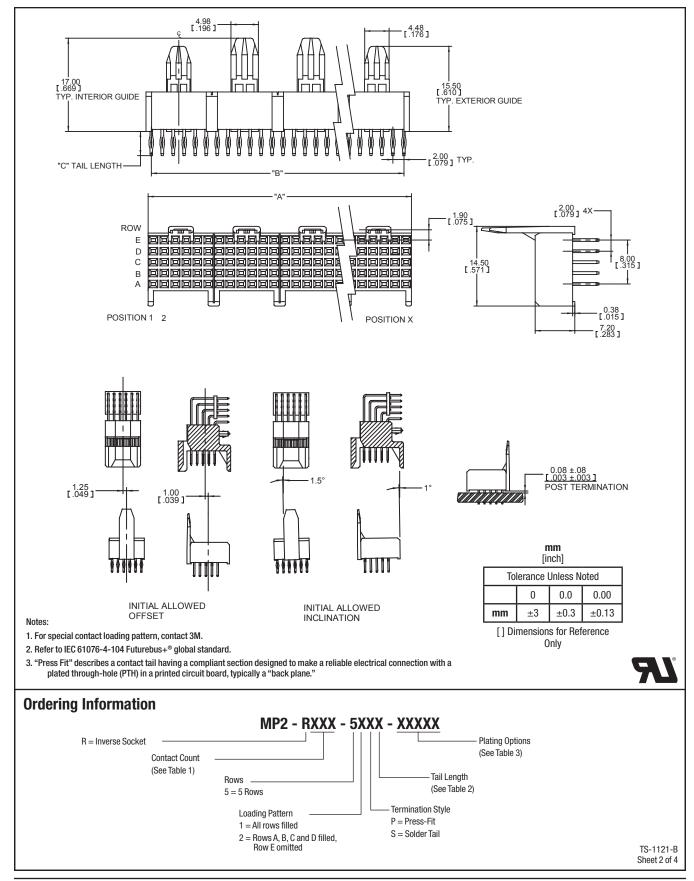
Futurebus+ is a registered trademark of the Institute of Electrical and Electronic Engineers, Inc. (IEEE)

UL File No.: E68080

3M[™] MetPak[™] 2-FB Inverse Socket

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

MP2 Series



3M

Electronic Solutions Division Interconnect Solutions http://www.3Mconnector.com 3M is a trademark of 3M Company. For technical, sales or ordering information call 800-225-5373

Table 1 - Connector & Row Lengths						
Pin Count	Dim."A" mm [inch]	Dim "B" mm [inch]	Rows	Block Count		
030	11.95 [0.471]	1.95 [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]	

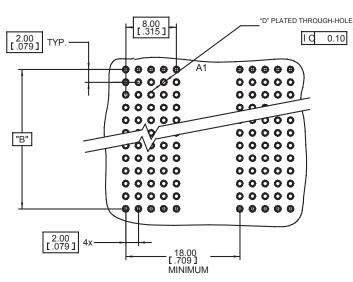
^{*}Compliant-Pin Tail

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 ly 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	

 $^{^*} Compliant \hbox{-Pin Tail}$

TS-1121-B Sheet 3 of 4 2 mm 5-Row, Vertical, Solder or Press-Fit Tail

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
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. mr			
"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

TS-1121-B Sheet 4 of 4

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of ninety (90) days from the time of purchase. 3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.



3M Electronics Solutions Division

6801 River Place Blvd. Austin, TX 78726-9000 U.S.A. 1-800-225-5373 www.3Mconnector.com

Please recycle. Printed in USA. © 3M 2010. All rights reserved. RIA-2217B-E

3M is a trademark of 3M Company.