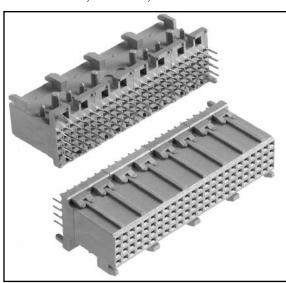
3M[™] MetPak[™] 2-FB Stacking Socket

2 mm 4/5-Row, Vertical, Solder or Press-Fit Tail

MP2 Series



- End-to-end stackable
- Offset dual-beam contact minimizes insertion force
- High-profile/high pin count
- Ideal for parallel stacking applications
- Vertical receptacle
- Eliminates internal cabling
- Meets IEC 61076-4-104 Futurebus+® global standard
- 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

TS-1118-C Sheet 1 of 4

Physical

Insulation:

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

Contact:

Material: Phosphor Bronze

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: $1000 V_{AC}$

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)

MP2 Series

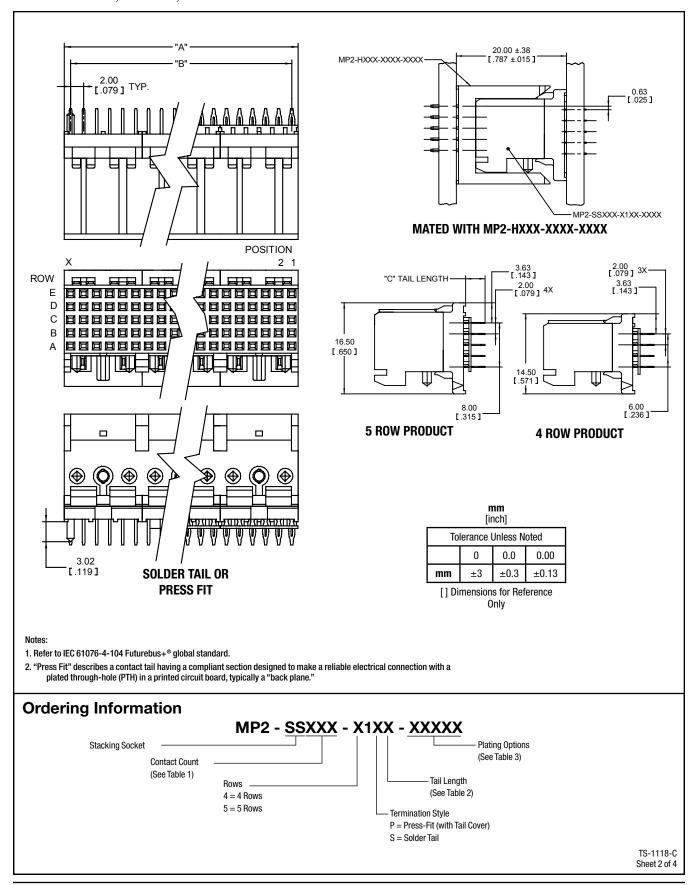


Table 1 - Connector & Row Lengths					
Pin Count	Dim. "A" mm [inch]	Dim "B" mm [inch]	Rows	Block Count	
024	11.95 [0.471]	10.00 [0.394]	4	1	
048	23.95 [0.943]	22.00 [0.866]	4	2	
072	35.95 [1.415]	34.00 [1.339]	4	3	
096	47.95 [1.889]	46.00 [1.811] 4		4	
120	59.95 [2.36]	.95 [2.36] 58.00 [2.283] 4		5	
144	71.95 [2.833] 70.00 [2.756] 4		4	6	
168	83.95 [3.305]	82.00 [3.228]	4	7	
192	95.95 [3.778]	.778] 94.00 [3.701] 4		8	
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 [1.888]	46.00 [1.811]	5	4	
150	59.95 [2.361]	58.00 [2.283]	5	5	
180	71.95 [2.833]	71.95 [2.833] 70.00 [2.756]		6	
210	83.95 [3.305]	83.95 [3.305] 82.00 [3.228] 5		7	
240	95.95 [3.778]	94.00 [3.701]	5	8	

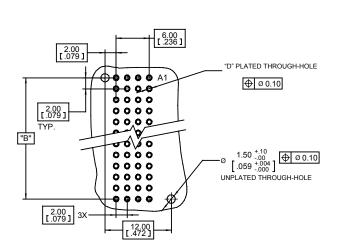
Table 2 - Tail Length Options				
Contact-to-PC Board Tail Termination Option No.		Dim. "C"		
Solder	Press-Fit*			
1	1	3.53 [0.139]		

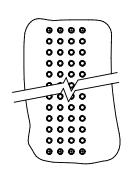
^{*}Compliant-Pin Tail

Table 3 - Plating & Regulatory						
Plating Suffix	Plating Suffix Press-Fit Tails* Solder Tails Plating Composition		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

TS-1118-C Sheet 3 of 4

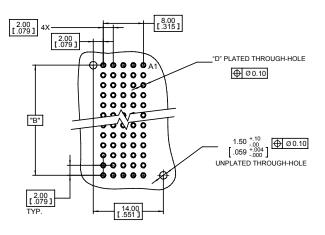


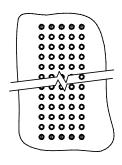


RECOMMENDED 4 ROW SOLDER TAIL PCB HOLE MOUNTING PATTERN

RECOMMENDED 4 ROW PRESS-FIT PCB HOLE MOUNTING PATTERN

	Table 4 - HOLE PLATING FINISHES							
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		





RECOMMENDED 5 ROW SOLDER TAIL PCB HOLE MOUNTING PATTERN

RECOMMENDED 5 ROW PRESS-FIT PCB HOLE MOUNTING PATTERN

TS-1118-C Sheet 4 of 4 3M is a trademark of 3M Company.

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

This product will be free from defects in material and manufacture for a period of one (1) year 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

SVI

3M Electronics Solutions Division 6801 River Place Blvd. Austin, TX 78726-9000 U.S.A. 1-800-225-5373 www.3Mconnectors.com

the legal theory asserted.

unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

3M:

MP2-SS024-41S1-FJ MP2-SS024-41S1-KR MP2-SS096-41S2-LR MP2-SS192-41S2-LR MP2-SS048-41S2-KR MP2-SS096-41S1-LR MP2-SS030-51S1-TR30 MP2-SS090-51S2-TG30 MP2-SS096-41S1-TG30 MP2-SS096-41S1-TR30 MP2-SS120-51P1-TR30 MP2-SS180-51P1-TR30 MP2-SS030-51P1-TR30 MP2-SS030-51P1-TR MP2-SS048-41S2-TG30 MP2-SS060-51P1-TR30 MP2-SS060-51S1-TR30 MP2-SS096-41P1-TR30 MP2-SS096-41S2-TR30 MP2-SS120-51S1-TR30 MP2-SS144-41S2-LR MP2-SS144-41S2-TR30 MP2-SS240-51S1-TR30 MP2-SS192-41S2-TR30 MP2-SS090-51P1-TR30 MP2-SS210-51S1-TR30 MP2-SS090-51P1-LR MP2-SS090-51P1-LR MP2-SS120-51P1-LR MP2-SS240-51S1-TG30 MP2-SS120-51S1-KR MP2-SS240-51S1-FJ MP2-SS240-51S1-KR MP2-SS240-51S1-TG30 MP2-SS150-51S1-KR MP2-SS048-41P1-KR