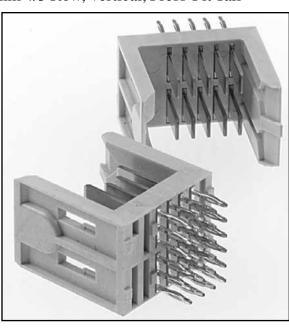
### 3M<sup>™</sup> MetPak<sup>™</sup> 2-FB Power Header

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





- 6.50 Amps per contact
- Early mate late break (EMLB) for hot swap or selective loading options
- End-to-end stackable
- Optional feed-through tail (Press-Fit)
- Futurebus+® compatible
- 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

TS-1126-E Sheet 1 of 4

### **Physical**

**Insulation:** 

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

**Contact:** 

Material: Copper Alloy

**Plating:** 

Underplating: 50 μ" [1.27 μm] Nickel Wiping Area: See Ordering Information Solder Tails: See Ordering Information

#### **Electrical**

**Current Rating:** Power: 6.50 A per power socket contact at 70°C

**Insulation Resistance:**  $10^3 M\Omega$ 

Withstanding Voltage:  $1,500 \, V_{AC}$  for 60 seconds

#### **Environmental**

**Temperature Rating:** -55°C to +125°C

UL File No.: E68080

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

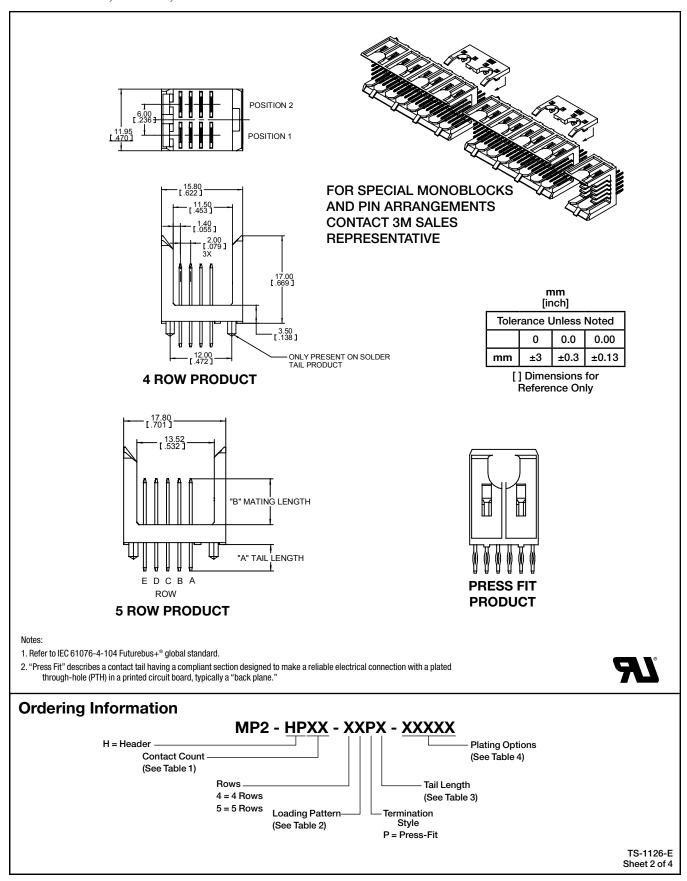


Table 1 - Connector & Row Lengths			
Contact Count	No. of Rows		
08	4		
10	5		

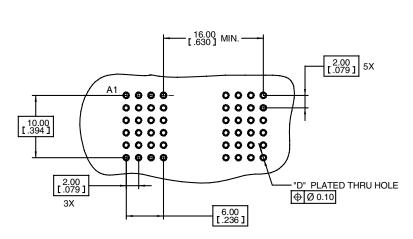
	Table 2 - Mate Length						
Loading Pattern Code	Description	Mate length Row A	Mate length Row B	Mate length Row C	Mate length Row D	Mate length Row E (5-Row Prod. Only)	
1	All Positions Filled	6.50 [0.256]	6.50 [0.256]	6.50 [0.256]	6.50 [0.256]	6.50 [0.256]	
2	All Positions Filled	8.00 [0.315]	8.00 [0.315]	7.25 [0.285]	6.50 [0.256]	6.50 [0.256]	
3	All Positions Filled	6.50 [0.256]	8.00 [0.315]	6.50 [0.256]	6.50 [0.256]	6.50 [0.256]	
4	All Positions Filled	6.50 [0.256]	7.25 [0.285]	7.25 [0.285]	8.00 [0.315]	8.00 [0.315]	
5	All Positions Filled	7.25 [0.285]	8.00 [0.315]	7.25 [0.285]	6.50 [0.256]	6.50 [0.256]	
6	All Positions Filled	8.00 [0.315]	8.00 [0.315]	8.00 [0.315]	8.00 [0.315]	8.00 [0.315]	
7	All Positions Filled	7.25 [0.285]	7.25 [0.285]	7.25 [0.285]	7.25 [0.285]	7.25 [0.285]	
8	All Positions Filled	8.00 [0.315]	6.50 [0.256]	8.00 [0.315]	7.25 [0.285]	7.25 [0.285]	
9	All Positions Filled	8.00 [0.315]	7.25 [0.285]	6.50 [0.256]	6.50 [0.256]	6.50 [0.256]	
Α	All Positions Filled	8.00 [0.315]	8.00 [0.315]	7.25 [0.285]	7.25 [0.285]	7.25 [0.285]	
С	All Positions Filled	8.00 [0.315]	8.00 [0.315]	8.00 [0.315]	6.50 [0.256]	6.50 [0.256]	
D	All Positions Filled	8.00 [0.315]	6.50 [0.256]	6.50 [0.256]	6.50 [0.256]	6.50 [0.256]	
G	All Positions Filled	8.00 [0.315]	8.00 [0.315]	8.00 [0.315]	8.00 [0.315]	5.75 [0.226]	
Н	All Positions Filled	8.00 [0.315]	8.00 [0.315]	7.25 [0.285]	8.00 [0.315]	8.00 [0.315]	

Table 3 - Tail Length Options			
Press-Fit* Tail Termination Option No.	Dim. "A"		
1	4.60 [0.181]		

<sup>\*</sup>Compliant-Pin Tail

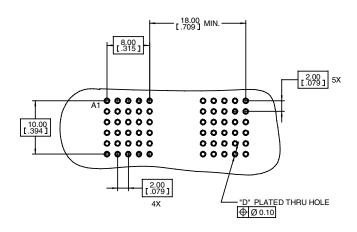
Table 4 - Plating			
Plating Suffix	Plating Composition		
KR (RIA E1 & C1 apply)	0.76 μm [30 μ"] Min. Au Contact Area 2.54 μm [100 μ"] Min. Matt Whisker Mitigating Sn Tail Area 1.27 μm [50 μ"] Min. Ni all over		
LR (RIA E1 & C1 apply)	0.08 µm [3 µ"] Min. Au Contact Area 0.67 µm [27 µ"] Min. PdNi Contact Area 2.54 µm [100 µ"] Min. Matt Whisker Mitigating Sn Tail Area 1.27 µm [50 µ"] Min. Ni all over		

TS-1126-E Sheet 3 of 4



## RECOMMENDED 4 ROW PRESS-FIT PCB HOLE MOUNTING PATTERN

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	



# RECOMMENDED 5 ROW PRESS-FIT PCB HOLE MOUNTING PATTERN

TS-1126-E 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.

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 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 the legal theory asserted.** 

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



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

### **Mouser Electronics**

**Authorized Distributor** 

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

#### 3M:

 MP2-HP10-54P1-KR
 MP2-HP10-54P1-LR
 MP2-HP10-5GP1-TR30
 MP2-HP10-51P2-KR
 MP2-HP10-53P1-TG30

 MP2-HP10-5DP1-KR
 MP2-HP10-51P2-TG30
 MP2-HP08-42P1-TG30
 MP2-HP10-53P1-TR30
 MP2-HP10-5CP1-TR30

 MP2-HP08-41P1-TR30
 MP2-HP10-5GP1-TG
 MP2-HP08-41P1-TG30
 MP2-HP10-51P1-TG30
 MP2-HP08-41P1-KR

 MP2-HP08-42P1-TR30
 MP2-HP08-43P1-LR
 MP2-HP10-51P1-KR
 MP2-HP10-51P1-TR40B
 MP2-HP10-55P1-TR30

 MP2-HP10-52P1-TR40B
 MP2-HP10-51P1-LR
 MP2-HP10-51P1-TR30
 MP2-HP10-52P1-TR30
 MP2-HP10-5CP1-TR30

 TG30
 MP2-HP08-46P1-KR