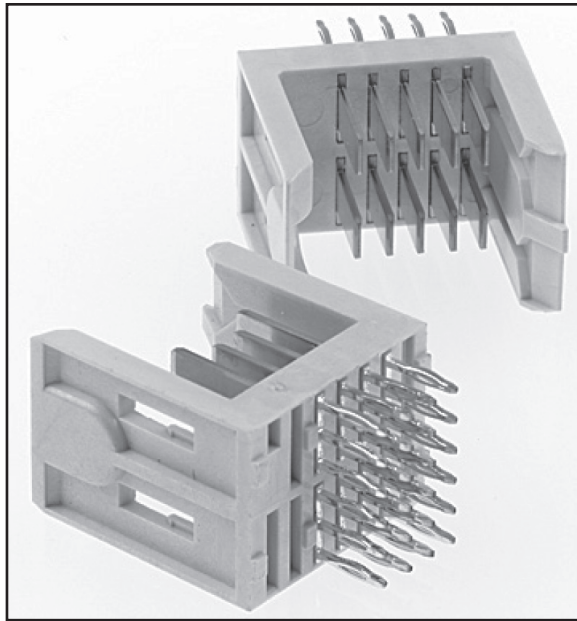


# 3M™ MetPak™ 2-FB Power Header

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

MP2 Series



- 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.3Mconnector.com](http://www.3Mconnector.com) for compliance information (RIA E1 & C1 apply)

Date Modified: May 11, 2010

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## Physical

### Insulation:

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

### Contact:

Material: Copper Alloy

### Plating:

Underplating: 50  $\mu$ " [1.27  $\mu$ m] 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<sup>3</sup> M $\Omega$

**Withstanding Voltage:** 1,500 V<sub>AC</sub> for 60 seconds

## Environmental

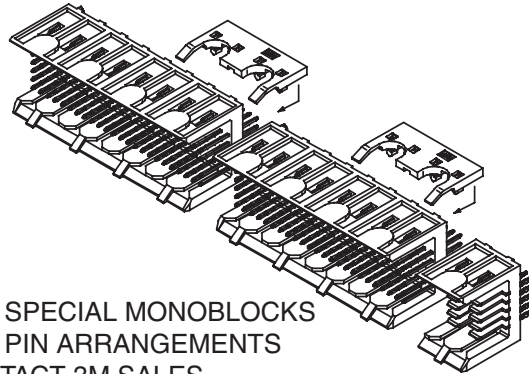
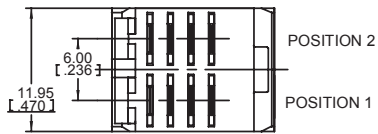
**Temperature Rating:** -55°C to +125°C

UL File No.: E68080

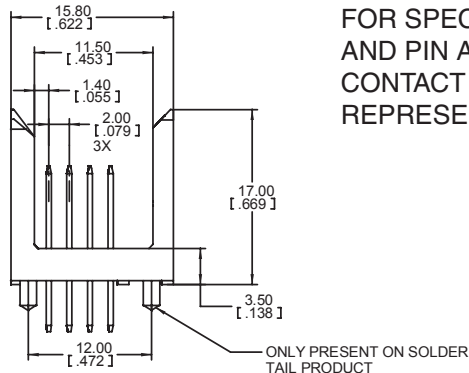
# 3M™ MetPak™ 2-FB Power Header

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

MP2 Series



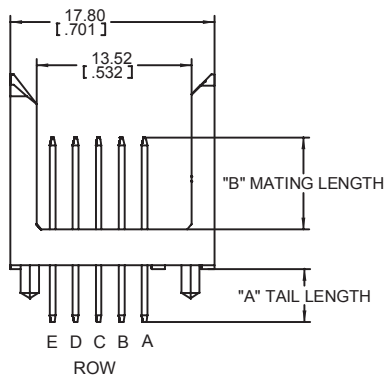
FOR SPECIAL MONOBLOCKS  
AND PIN ARRANGEMENTS  
CONTACT 3M SALES  
REPRESENTATIVE



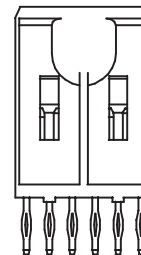
**4 ROW PRODUCT**

| mm [inch]              |    |      |       |
|------------------------|----|------|-------|
| Tolerance Unless Noted |    |      |       |
|                        | 0  | 0.0  | 0.00  |
| <b>mm</b>              | ±3 | ±0.3 | ±0.13 |

[ ] Dimensions for Reference Only



**5 ROW PRODUCT**



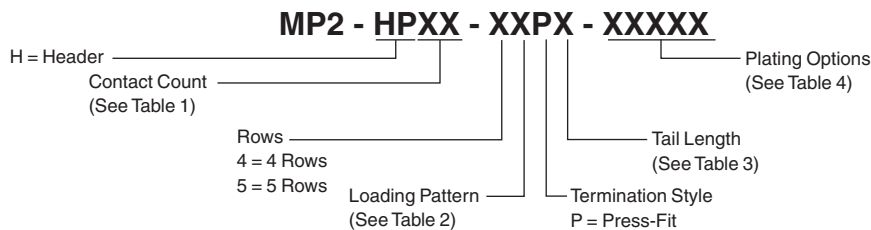
**PRESS FIT PRODUCT**

**Notes:**

1. Refer to IEC 61076-4-104 Futurebus+® global standard.
2. "Press Fit" describes a contact tail having a compliant section designed to make a reliable electrical connection with a plated through-hole (PTH) in a printed circuit board, typically a "back plane."



## Ordering Information



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Sheet 2 of 4

# 3M™ MetPak™ 2-FB Power Header

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

MP2 Series

| 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]                         |
| A                     | All Positions Filled | 8.00 [0.315]      | 8.00 [0.315]      | 7.25 [0.285]      | 7.25 [0.285]      | 7.25 [0.285]                         |
| C                     | 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]                         |
| H                     | 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] |

\*Compliant-Pin Tail

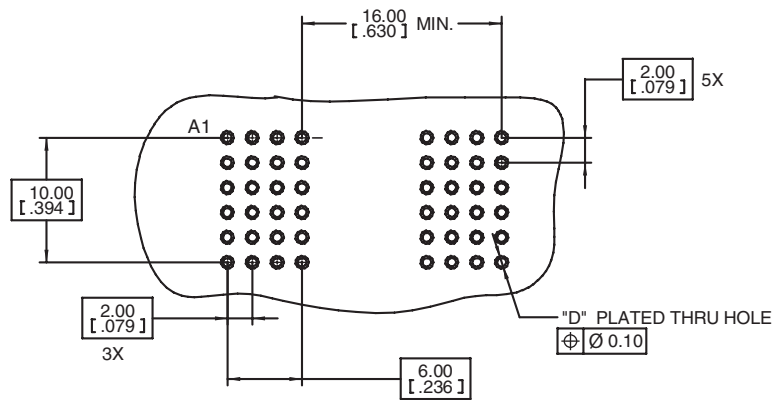
| Table 4 - Plating           |   |                           |   |
|-----------------------------|---|---------------------------|---|
| Plating Suffix              | Plating Composition   | Plating Suffix            | Plating Composition   |
| TG30<br>(RIA E2 & C2 apply) | 0.76 µm [30 µ"] Min. Au Contact Area<br>2.54 µm [100 µ"] Min. SnPb Tail Area<br>1.27 µm [50 µ"] Min. Ni all over  | KR<br>(RIA E1 & C1 apply) | 0.76 µm [30 µ"] Min. Au Contact Area<br>2.54 µm [100 µ"] Min. Matt Whisker Mitigating Sn Tail Area<br>1.27 µm [50 µ"] Min. Ni all over  |
| TR30<br>(RIA E2 & C2 apply) | 0.08 µm [3 µ"] Min. Au Contact Area<br>0.67 µm [27 µ"] Min. PdNi Contact Area<br>2.54 µm [100 µ"] Min. SnPb Tail Area<br>1.27 µm [50 µ"] Min. Ni all over | LR<br>(RIA E1 & C1 apply) | 0.08 µm [3 µ"] Min. Au Contact Area<br>0.67 µm [27 µ"] Min. PdNi Contact Area<br>2.54 µm [100 µ"] Min. Matt Whisker Mitigating Sn Tail Area<br>1.27 µm [50 µ"] Min. Ni all over |

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# 3M™ MetPak™ 2-FB Power Header

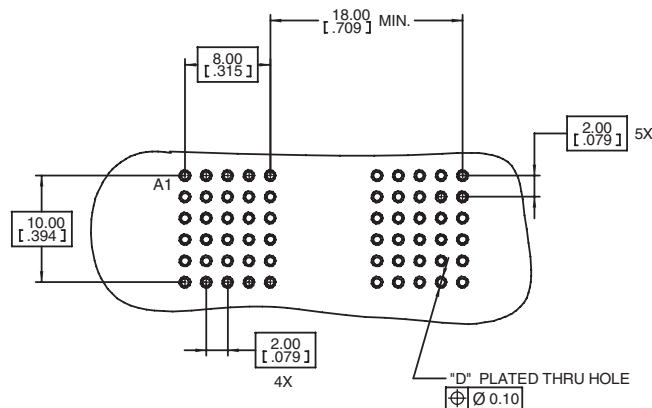
2 mm 4/5 Row, Vertical, Press-Fit Tail

MP2 Series



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

| Table 5 – HOLE PLATING SPECIFICATION |                         |                        |                             |                           |
|--------------------------------------|-------------------------|------------------------|-----------------------------|---------------------------|
| HOLE                                 | Finished Dia. MM [in]   | Cu Thickness [mm [in]] | SnPb Thickness microns [μ"] | Drilled Hole Dia. mm [in] |
| "D"                                  | 0.65-0.80 [.0256-.0315] | 0.025 [.001] min.      | 15 [600] max.               | 0.81-0.86 [.0319-.0339]   |



**RECOMMENDED 5 ROW PRESS-FIT  
PCB HOLE MOUNTING PATTERN**

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Sheet 4 of 4

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