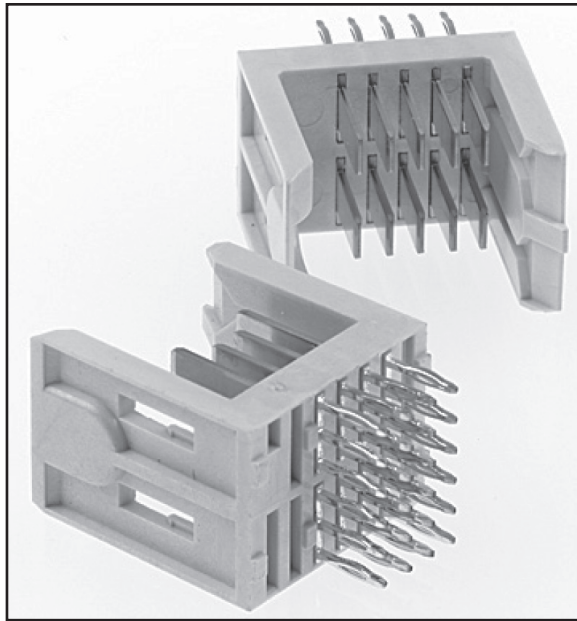


3M™ MetPak™ 2-FB Power Header

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 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 μ " [1.27 μ 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: 10³ M Ω

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

Environmental

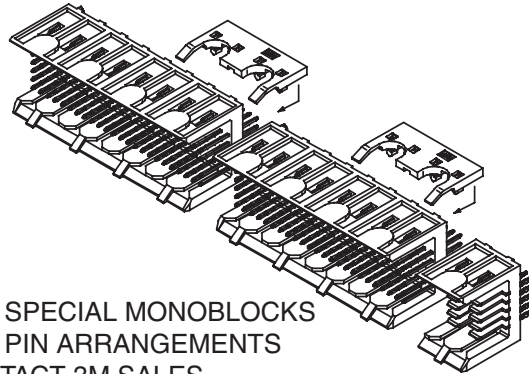
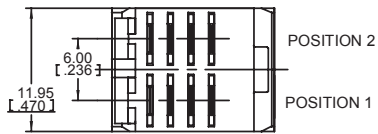
Temperature Rating: -55°C to +125°C

UL File No.: E68080

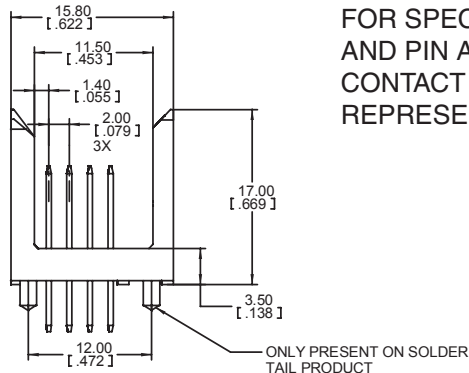
3M™ MetPak™ 2-FB Power Header

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

MP2 Series



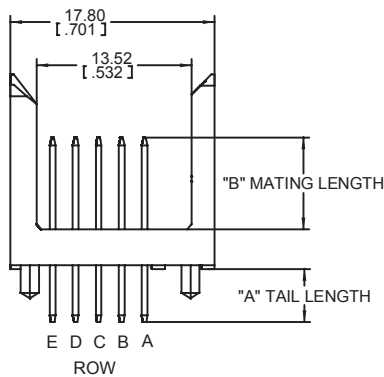
FOR SPECIAL MONOBLOCKS
AND PIN ARRANGEMENTS
CONTACT 3M SALES
REPRESENTATIVE



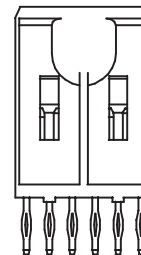
4 ROW PRODUCT

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

[] Dimensions for Reference Only



5 ROW PRODUCT



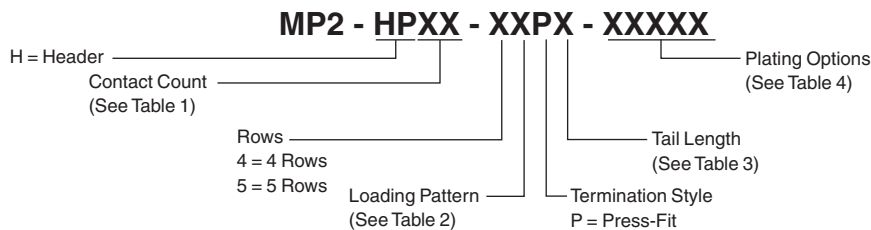
PRESS FIT PRODUCT

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

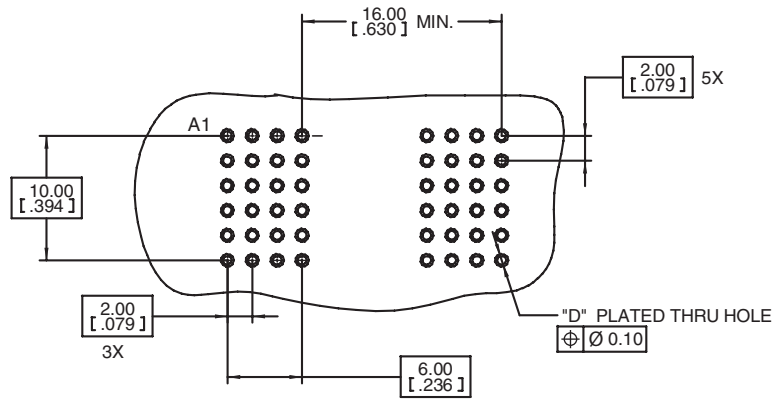
| Table 4 - Plating | | | |
|-----------------------------|---|---------------------------|---|
| Plating Suffix | Plating Composition | Plating Suffix | Plating Composition |
| TG30 (RIA E2 & C2 apply) | 0.76 µm [30 µ"] Min. Au Contact Area 2.54 µm [100 µ"] Min. SnPb Tail Area 1.27 µm [50 µ"] Min. Ni all over | 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 |
| TR30 (RIA E2 & 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 | 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 |

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3M™ MetPak™ 2-FB Power Header

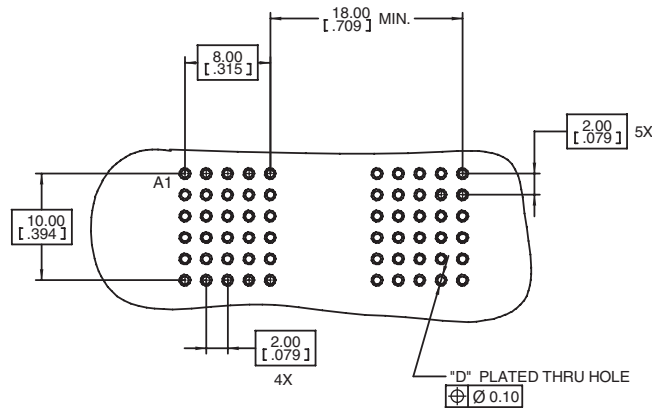
2 mm 4/5 Row, Vertical, Press-Fit Tail

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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- Техническая поддержка проекта;
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