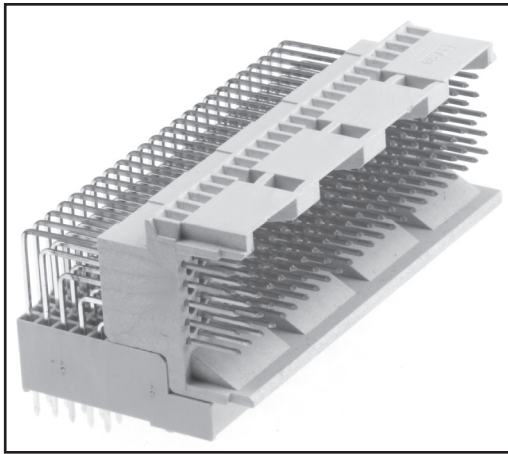


# 3M™ MetPak™ 2-FB Inverse Header

2 mm 5-Row, Right Angle, Elevated, Solder Tail

MP2 Series



- Elevated connector for offset coplanar/end-to-end stacking
- Ideal for low profile IU boxes
- Ideal for “pizza box” applications
- Ideal for hot swapping applications
- 16 mm to 18.5 mm high profile stacking
- Mates with MP2-SXXXG sockets
- Prevents removing top cover in rack applications
- Footprint compatible with standard Futurebus+®
- 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:** Signal: 1.5 A – All contacts simultaneously

**Insulation Resistance:** 10<sup>3</sup> M $\Omega$

**Withstanding Voltage:** 1000 V<sub>AC</sub>

## 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)

UL File No.: E68080

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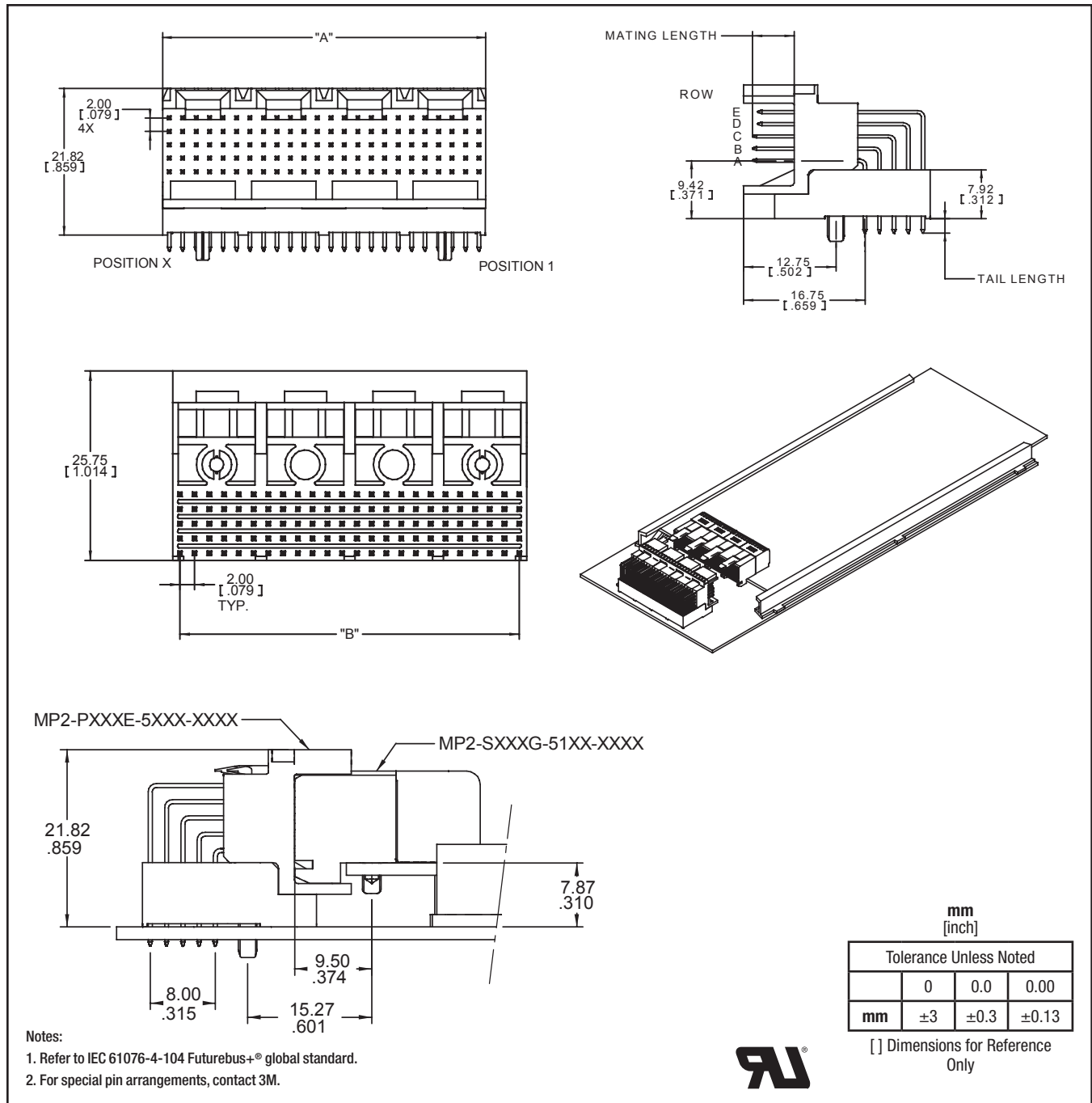
**3M**  
Electronic Solutions Division  
Interconnect Solutions  
<http://www.3Mconnector.com>

3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

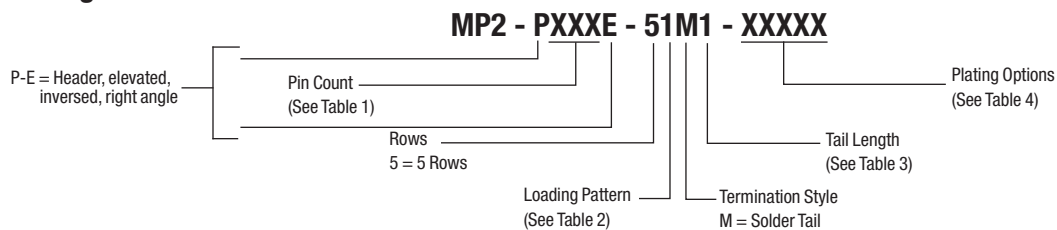
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## Ordering Information



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Table 1 - Connector & Row Lengths			
Pin Count	Dim. "A" mm [inch]	Dim "B" mm [inch]	Rows
120	47.95 [1.888]	46.00 [1.811]	5
240	95.95 [3.778]	94.00 [3.701]	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	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]

Table 2 - Tail Length						
Loading Pattern Code	Description	Tail Length Row A	Tail Length Row B	Tail Length Row C	Tail Length Row D	Tail Length Row E
1	All Positions Filled	3.13 [0.123]	3.13 [0.123]	3.13 [0.123]	2.38 [0.094]	2.38 [0.094]

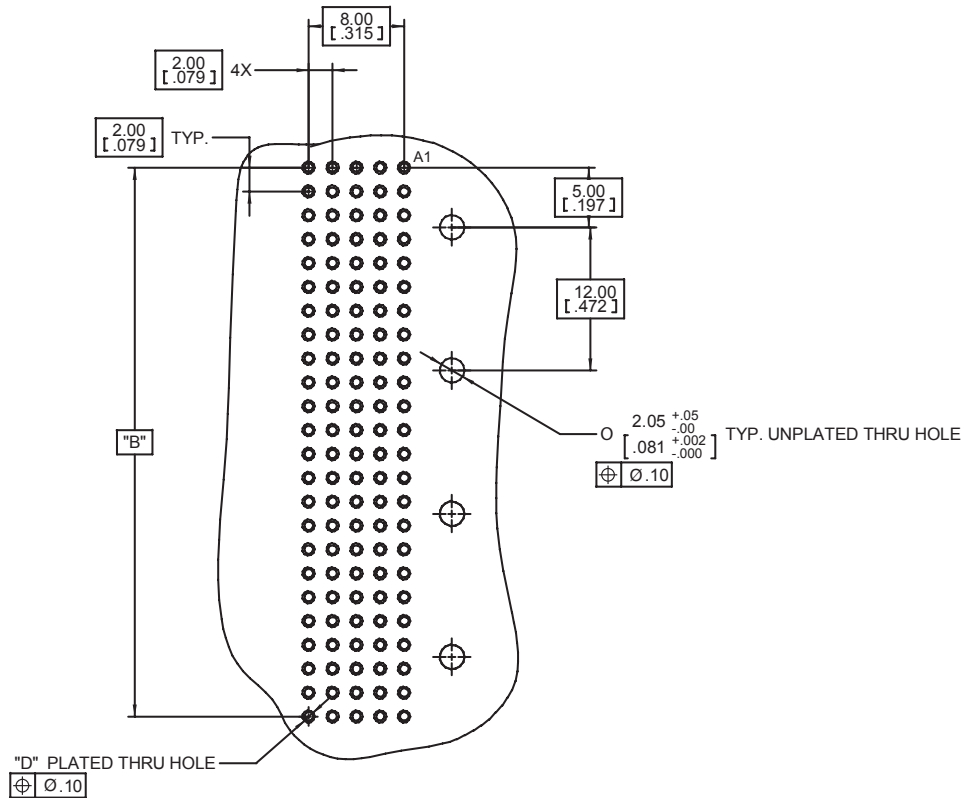
Table 4 - Plating	
Plating Suffix	Plating Composition
TR30 (RIA E3 & C2 apply)	0.08 µm [3 µ"] Min. Au Contact Area 0.67 µm [27 µ"] Min. PdNi Contact Area 2.54 µm [100 µ"] Min. SnPb Tail Area 1.27 µm [50 µ"] Min. Ni all over
KR (RIA E1 & C1 apply)	0.76 µm [30 µ"] Min. Au Contact Area 2.54 µm [100 µ"] 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

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# 3M™ MetPak™ 2-FB Inverse Header

2 mm 5-Row, Right Angle, Elevated, Solder Tail

MP2 Series



## RECOMMENDED PCB HOLE MOUNTING PATTERN

Table 5 – HOLE PLATING For TR30 FINISHES ONLY

HOLE	Finished Dia. MM [in]	Cu Thickness [mm [in]	SnPb Thickness microns [ $\mu$ "]	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]

Table 6 – HOLE PLATING For KR and LR FINISHES ONLY

HOLE	Finished Dia. MM [in]	Cu Thickness [mm [in]	Immersion Matte Sn Thickness microns [ $\mu$ "]	Electrolytic Au Thickness microns [ $\mu$ "]	OSP ENTEK Thickness microns [ $\mu$ "]	Drilled Hole Dia. mm [in]
"D"	0.700-0.800 [.0276-.0315]	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

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