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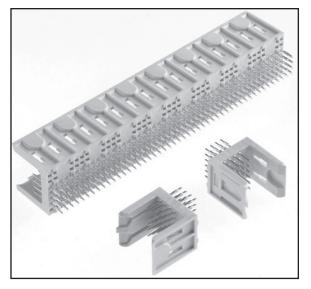
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



3M[™] MetPak[™] 2-FB Header

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



Solder Tail

- End-to-end stackable
- Select load capability
- Monoblockable
- Shoulder Pin

Press Fit

- End-to-end stackable
- Early mate late break for hot swapping (press-fit EMLB adjusted by application tooling)
- Select load capability
- Monoblockable
- Push-on shoulder pin
- Optional feed-through tail for rear plug-up midplane applications
- Accepts Universal Tooling
- 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

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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:** $10^3 \text{ M}\Omega$ **Withstanding Voltage:** $1,000 \text{ V}_{AC}$

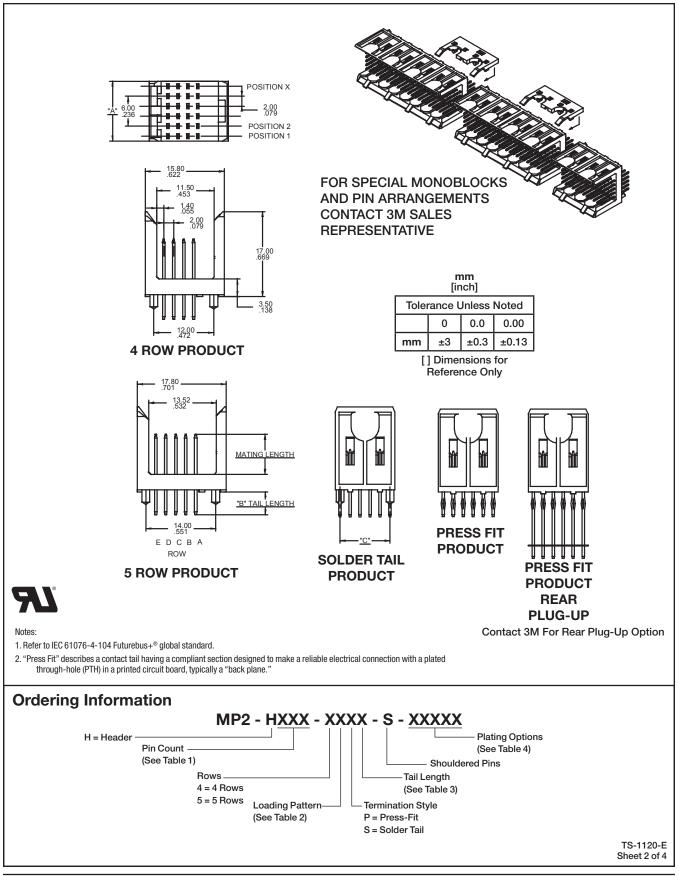
Environmental

Temperature Rating:-55°C to +125°CProcess Temperature Rating:260°C (Profile per J-STD-020C)Moisture Sensitivity Level:1 (per J-STD-020C)

UL File No.: E68080

3M[™] MetPak[™] 2-FB Header 2 mm 4/5 Row, Vertical, Solder or Press-Fit Tail, Shouldered Pin

MP2 Series



ЗМ

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3M[™] MetPak[™] 2-FB Header

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

MP2 Series

Table 1 - Connector & Row Lengths				
Pin Count	Dim. "A" mm [inch]	Dim "C" mm [inch]	Rows	
024	11.95 [0.471]	10.00 [0.394]	4	
048	23.95 [0.943]	22.00 [0.866]	4	
072	35.95 [1.415]	34.00 [1.339]	4	
096	47.95 [1.889]	46.00 [1.811]	4	
120	59.95 [2.36]	58.00 [2.283]	4	
144	71.95 [2.833]	70.00 [2.756]	4	
168	83.95 [3.305]	82.00 [3.228]	4	
192	95.95 [3.778]	94.00 [3.701]	4	
030	11.95 [0.471]	10.00 [0.394]	5	
060	23.95 [0.943]	22.00 [0.866]	5	
090	35.95 [1.415]	34.00 [1.339]	5	
120	47.95 [1.888]	46.00 [1.811]	5	
150	59.95 [2.361]	58.00 [2.283]	5	
180	71.95 [2.833]	70.00 [2.756]	5	
210	83.95 [3.305]	82.00 [3.228]	5	
240	95.95 [3.778]	94.00 [3.701]	5	

	Table 4 - Plating Options			
Plating Suffix	Press-Fit Tails*	Solder Tails	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	
KV for rear plug- up only	(RIA E1 & C1 apply)		0.76 μm [30 μ"] Min. Au Primary Contact Area 0.10 μm [4 μ"] Min. Au Needle Eye Area 0.10 μm [4 μ"] Min. Au Secondary Contact Area 1.27 m [50 μ"] Min. Ni all over	

Table 3 - Tail Length Options			
Plating Suffix		ting Suffix	Dim. "B"
Solder Ta	ail	Press-Fit* Tail	
1		1	4.60 [0.181]
3			2.72 [0.107]
3			2.72 [0.107]

*Compliant-Pin Tail

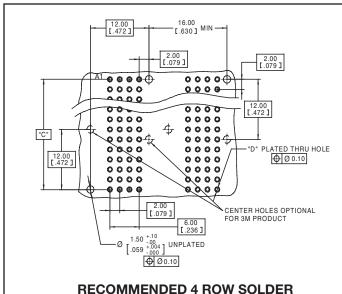
	Table 2 - Mate Length vs. Loading Pattern						
Loading Pattern Code	Description	Mate length Row A	Mate length Row B	Mate length Row C	Mate length Row D	Mate length Row E (5-Row Prod. Only)	
1	All Positions Filled	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	
2	All Positions Filled	6.50 [0.256]	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	
3	All Positions Filled	6.50 [0.256]	5.75 [0.226]	5.75 [0.226]	6.50 [0.256]	6.50 [0.256]	
4	All Positions Filled	6.50 [0.256]	6.50 [0.256]	6.50 [0.256]	6.50 [0.256]	6.50 [0.256]	
5	All Positions Filled	5.75 [0.226]	7.25 [0.285]	5.75 [0.226]	5.75 [0.226]	5.75 [0.226]	
6	All Positions Filled	7.25 [0.285]	5.75 [0.226]	5.75 [0.226]	5.75 [0.226]	5.75 [0.226]	
7	All Positions Filled	6.50 [0.256]	5.75 [0.226]	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	
8	All Positions Filled	6.50 [0.256]	5.00 [0.197]	6.50 [0.256]	6.50 [0.256]	6.50 [0.256]	
9	All Positions Filled	5.00 [0.197]	6.50 [0.256]	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	
A	All Positions Filled	5.00 [0.197]	5.75 [0.226]	6.50 [0.256]	5.75 [0.226]	5.00 [0.197]	
В	All Positions Filled	5.75 [0.226]	5.75 [0.226]	5.75 [0.226]	5.75 [0.226]	5.75 [0.226]	
С	All Positions Filled	5.00 [0.197]	5.00 [0.197]	6.50 [0.256]	5.00 [0.197]	5.00 [0.197]	
D	All Positions Filled	5.75 [0.226]	5.75 [0.226]	7.25 [0.285]	5.75 [0.226]	5.75 [0.226]	
E	All Positions Filled	7.25 [0.285]	7.25 [0.285]	7.25 [0.285]	7.25 [0.285]	7.25 [0.285]	
G	All Positions Filled	7.25 [0.285]	5.75 [0.226]	5.75 [0.226]	5.00 [0.197]	5.00 [0.197]	
н	All Positions Filled	5.00 [0.197]	5.75 [0.226]	5.75 [0.226]	7.25 [0.285]	7.25 [0.285]	
J	All Positions Filled	8.00 [0.315]	8.00 [0.315]	8.00 [0.315]	8.00 [0.315]	8.00 [0.315]	
К	All Positions Filled	5.00 [0.197]	6.50 [0.256]	7.25 [0.285]	6.50 [0.256]	5.00 [0.197]	

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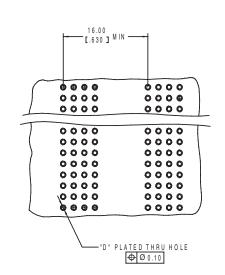
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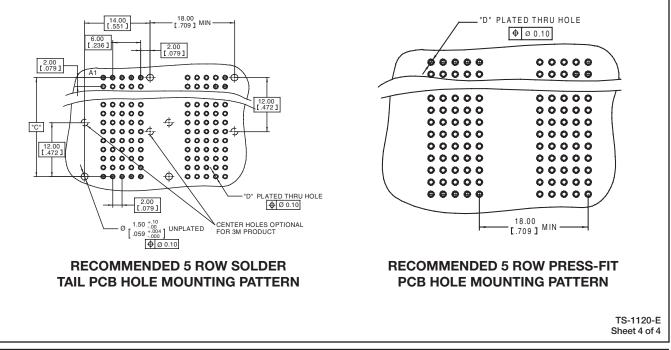


TAIL PCB HOLE MOUNTING PATTERN



RECOMMENDED 4 ROW PRESS-FIT

Table 5 - HOLE PLATING FINISHES HOLE Finished Dia. **OSP ENTEK Drilled Hole Immersion Matte Electrolytic Au** MM [in] **Sn Thickness** Thickness Thickness Dia. mm [in] microns [µ"] microns [µ"] microns [µ"] 0.830-0.860 [.0330-.0340] or 0.85 mm [#66] TWIST DRILL "D" 0.700-0.800 0.025-0.045 0.1 - 0.5 0.2 - 0.5 [0.001-0.002] [4 - 20] [8 - 20] [.0276-.0315]



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