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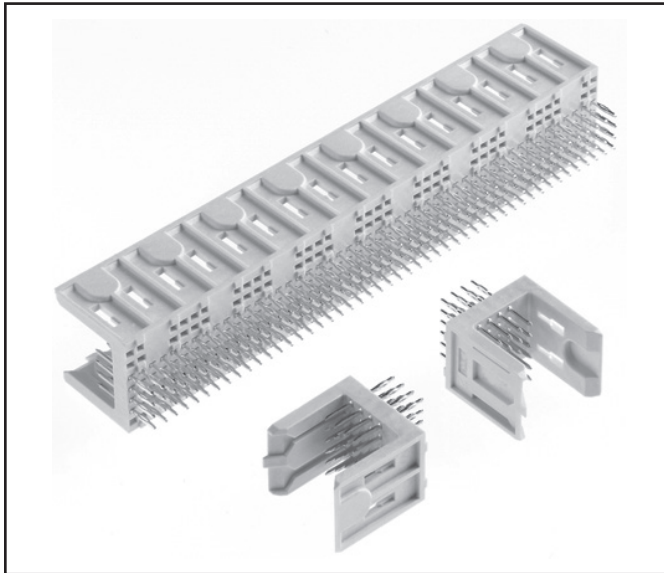
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3M™ MetPak™ 2-FB Header

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

MP2 Series



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.3M.com/Interconnects for compliance information (RIA E1 & C1 apply)

Date Modified: September 9, 2009

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Physical

Insulation:

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

Color:

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: 10³ MΩ
Withstanding Voltage: 1,000 V_{AC}

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



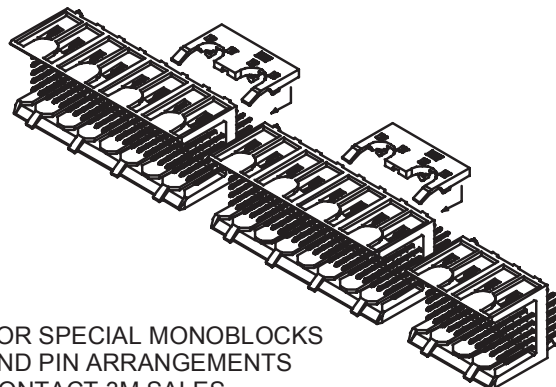
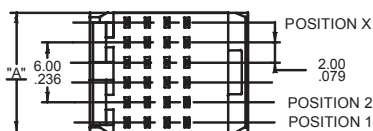
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Interconnect Solutions
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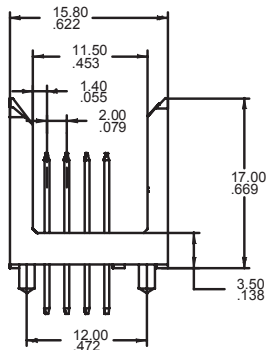
3M™ MetPak™ 2-FB Header

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

MP2 Series



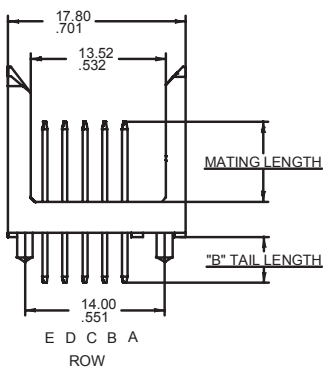
FOR SPECIAL MONOBLOCKS AND PIN ARRANGEMENTS CONTACT 3M SALES REPRESENTATIVE



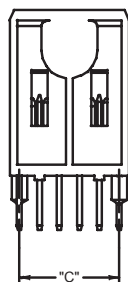
4 ROW PRODUCT

Tolerance Unless Noted			
	0	0.0	0.00
mm	±3	±0.3	±0.13

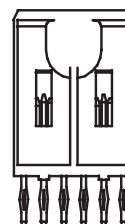
[] Dimensions for Reference Only



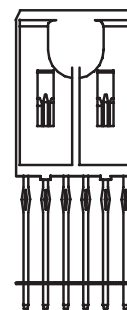
5 ROW PRODUCT



SOLDER TAIL PRODUCT



PRESS-FIT PRODUCT



PRESS-FIT PRODUCT REAR PLUG-UP

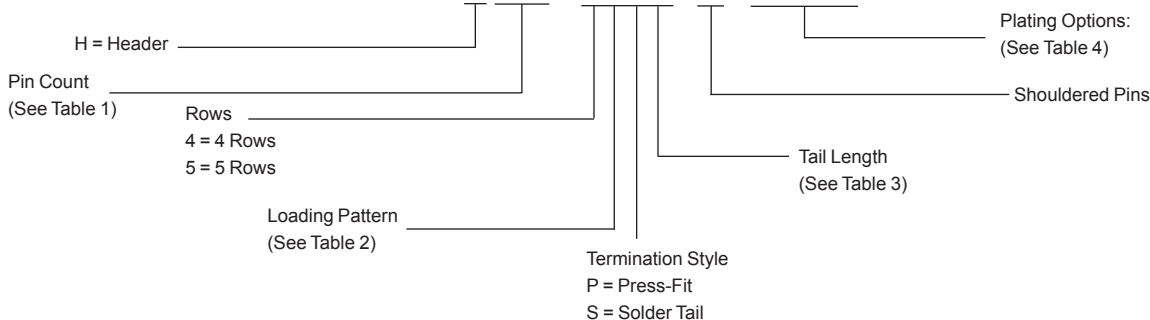


Note:

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

MP2 - HXXX - XXXX - S - XXXXX



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Sheet 2 of 4

3M™ MetPak™ 2-FB Header

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

MP2 Series

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

Termination Option No.		Dim. "B"
Solder Tail	Press-Fit* Tail	
1	1	4.60 [0.181]
2		3.53 [0.139]
3		2.72 [0.107]
	5 (Contact 3M)	13.60 [0.535]
	7 (Contact 3M)	17.00 [0.669]

*Compliant-Pin Tail

Plating Suffix	Press-Fit Tails*	Solder Tails	Plating Composition
TG	(RIA E2 & C2 apply)	(RIA E3 & C2 apply)	0.25 µm [10 µ"] Min. Au Contact Area 2.54 µm [100 µ"] Min. SnPb Tail Area 1.27 µm [50 µ"] Min. Ni all over
TG30	(RIA E2 & C2 apply)	(RIA E3 & 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
TR30	(RIA E2 & C2 apply)	(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
TR40B	(RIA E2 & C2 apply)	(RIA E3 & C2 apply)	0.13 µm [5 µ"] Min. Hard Au Contact Area, Lubricated 1.02 µm [40 µ"] Min. PdNi Contact Area 0.10 µm [4 µ"] Min. Pd Contact Area 2.54 µm [100 µ"] Min. SnPb Tail Area 1.27 µm [50 µ"] Min. Ni all over
FJ	(RIA E1 & C1 apply)	(RIA E1 & C1 apply)	0.25 µm [10 µ"] Min. Au Contact Area 5.08 µm [200 µ"] Min. Matt Whisker Mitigating Sn Tail Area 1.27 µm [50 µ"] Min. Ni all over
KR	(RIA E1 & C1 apply)	(RIA E1 & C1 apply)	0.76 µm [30 µ"] Min. Au Contact Area 5.08 µm [200 µ"] Min. Matt Whisker Mitigating Sn Tail Area 1.27 µm [50 µ"] Min. Ni all over
RF	(RIA E1 & C1 apply)	(RIA E1 & C1 apply)	1.27 µm [50 µ"] Min. Au Contact Area, Lubricated 5.08 µm [200 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 5.08 µm [200 µ"] Min. Matt Whisker Mitigating Sn Tail Area 1.27 µm [50 µ"] Min. Ni all over
PD	(RIA E1 & C1 apply)	(RIA E1 & C1 apply)	0.13 µm [5 µ"] Min. Hard Au Contact Area, Lubricated 1.02 µm [40 µ"] Min. PdNi Contact Area 0.10 µm [4 µ"] Min. Pd Contact Area 5.08 µm [200 µ"] Min. Matt Whisker Mitigating Sn Tail Area
KV	(RIA E1 & C1 apply)	(RIA E1 & C1 apply)	0.76 µm [30 µ"] Min. Au Dual Contact Areas 0.10 µm [4 µ"] Min. Au Needle Eye 1.27 µm [50 µ"] Min. Ni all over

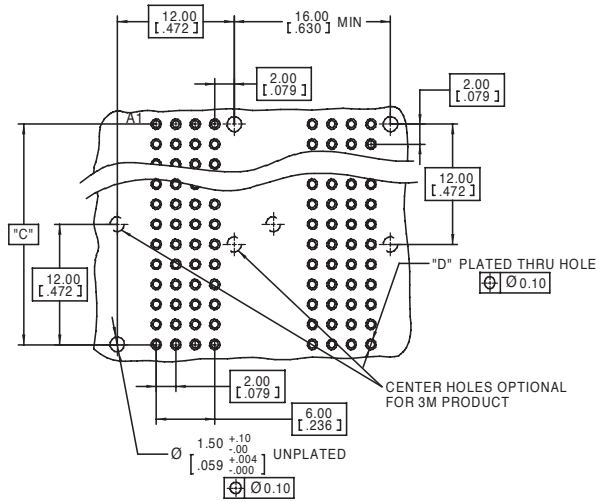
Loading Pattern Code	Description	Mate length Row A	Mate length Row B	Mate length Row C	Mate length Row D	Mate length Row E (5-Row Prod. Only)
1	All Positions Filled	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]
2	All Positions Filled	6.50 [0.256]	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	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]
B	All Positions Filled	5.75 [0.226]	5.75 [0.226]	5.75 [0.226]	5.75 [0.226]	5.75 [0.226]
C	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]
H	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]
K	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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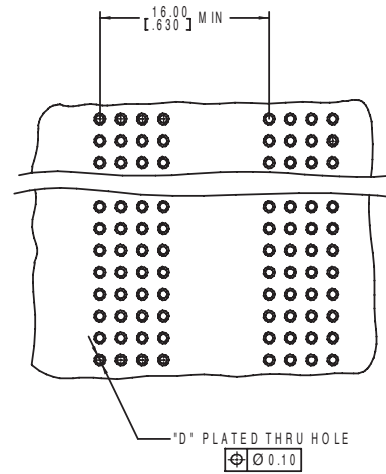
3M™ MetPak™ 2-FB Header

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

MP2 Series



**RECOMMENDED 4 ROW SOLDER
TAIL PCB HOLE MOUNTING PATTERN**



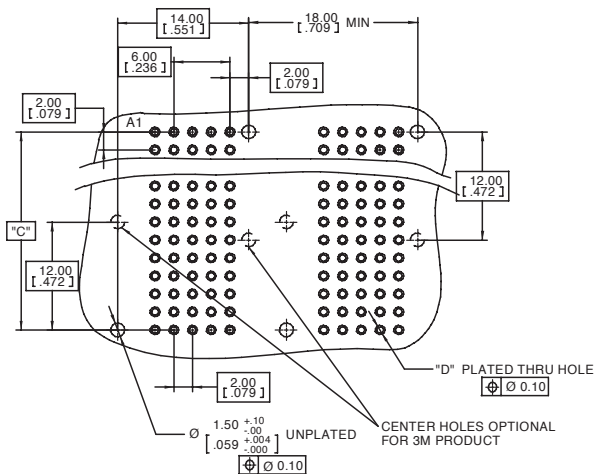
RECOMMENDED 4 ROW PRESS-FIT

Table 5 -- HOLE PLATING For TG, TG30, TR30, TR40B FINISHES ONLY

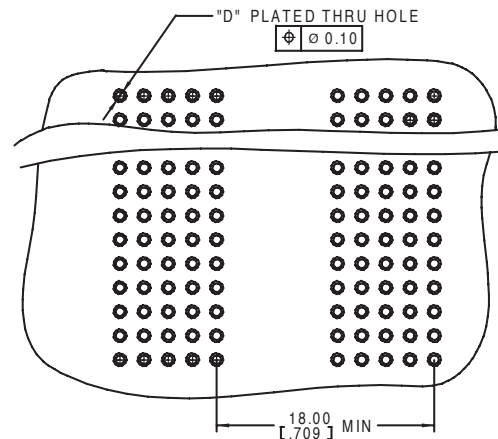
HOLE	Finished Dia. mm [in]	Cu Thickness mm [in]	SnPb Thickness microns [μ"]	Drilled Hole Dia. mm [in]
"D"	0.65-0.80 [0.0256-.0315]	0.025 [0.001] min.	15 [600] max.	0.81-0.86 [0.0319-.0339]

Table 6 -- HOLE PLATING For FJ, KR, RF, LR, and PD 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 [0.0276-.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 [0.0330-.0340] or 0.85mm [#66] TWIST DRILL



**RECOMMENDED 5 ROW SOLDER
TAIL PCB HOLE MOUNTING PATTERN**



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

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Sheet 4 of 4

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