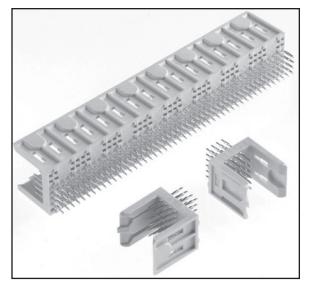
3M[™] MetPak[™] 2-FB Header

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.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: May 10, 2010

TS-1120-D Sheet 1 of 4

Physical

Insulation	1:
Materia	l: High Temp LCP
Flammabilit	y: UL 94V-0
Colo	r: Beige
Contac	t:
Materia	l: Phosphor Bronze
Plating	; :
Underplating	g: 50 μ" [1.27 μm] Nickel
Wiping Are	a: See Ordering Information
Solder Tail	s: See Ordering Information

Electrical

Current Rating: Signal: 1.5 A – All contacts simultaneously **Insulation Resistance:** $10^3 \text{ M}\Omega$ **Withstanding Voltage:** $1,000 \text{ V}_{AC}$

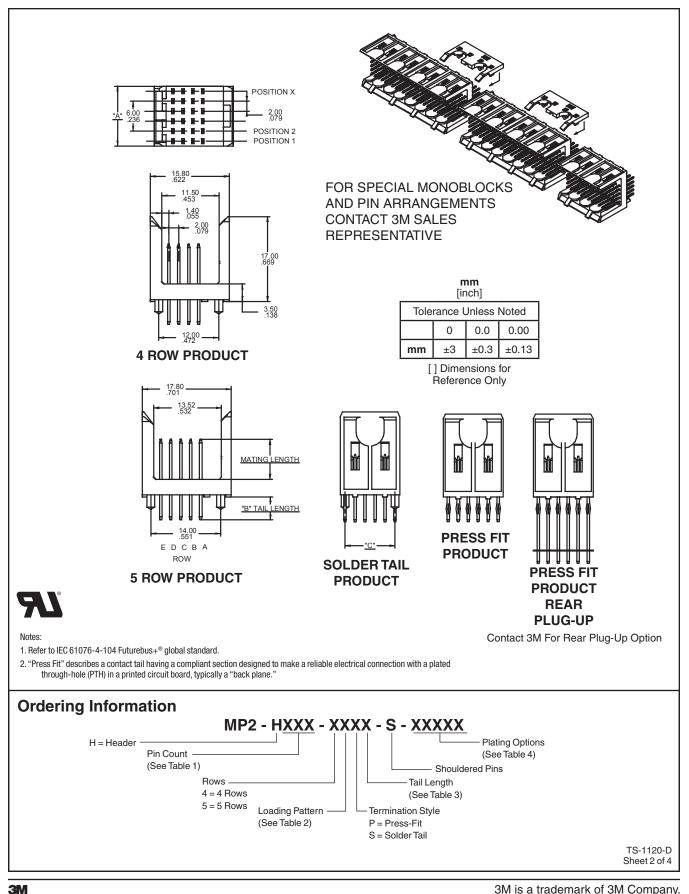
Environmental

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



Electronic Solutions Division Interconnect Solutions http://www.3Mconnector.com

ЗМ

For technical, sales or ordering information call 800-225-5373

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	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		
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		
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 Dual Contact Areas 0.10 μm [4 μ"] Min. Au Needle Eye 1.27 μm [50 μ"] Min. Ni all over		

Table 3 - Tail Length Options			
ing Suffix	Dim. "B"		
Press-Fit* Tail	Dim. B		
1	4.60 [0.181]		
	2.72 [0.107]		
	ing Suffix		

*Compliant-Pin Tail

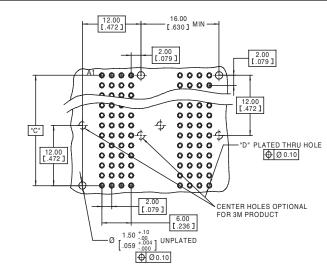
Table 2 - Mate Length vs. Loading Pattern						
Loading Pattern Code	Description	Mate length Row A	Mate length Row B	Mate length Row C	Mate length Row D	Mate length Row E (5-Row Prod. Only)
1	All Positions Filled	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]	5.00 [0.197]
2	All Positions Filled	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]

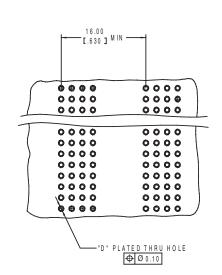
TS-1120-D Sheet 3 of 4

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3M[™] MetPak[™] 2-FB Header

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



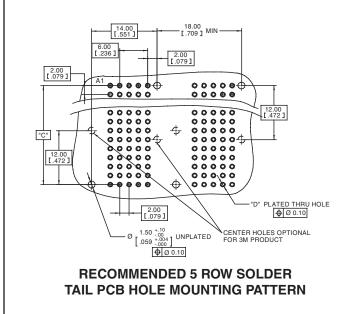


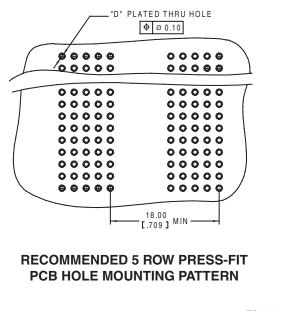
RECOMMENDED 4 ROW SOLDER TAIL PCB HOLE MOUNTING PATTERN

RECOMMENDED 4 ROW PRESS-FIT

Table 5 – HOLE PLATING For TG30 and TR30 FINISHES ONLY					
HOLE Finished Dia. MM [in] Cu Thickness [mm [in] SnPb Thickness microns [μ"] Drilled Hole Dia. mm					
"D" 0.65-0.80 [.02560315] 0.025 [.001] min. 15 [600] max. 0.81-0.86 [.03190339]					

	Table 6 – HOLE PLATING For KR, LR, and KV FINISHES ONLY					
HOLE Finished Dia. 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 [.02760315]	0.025-0.045 [0.001-0.002]	0.1 - 0.5 [4 - 20]	0.2 - 0.5 [8 - 20]	0.830-0.860 [.03300340] or 0.85 mm [#66] TWIST DRILL	





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