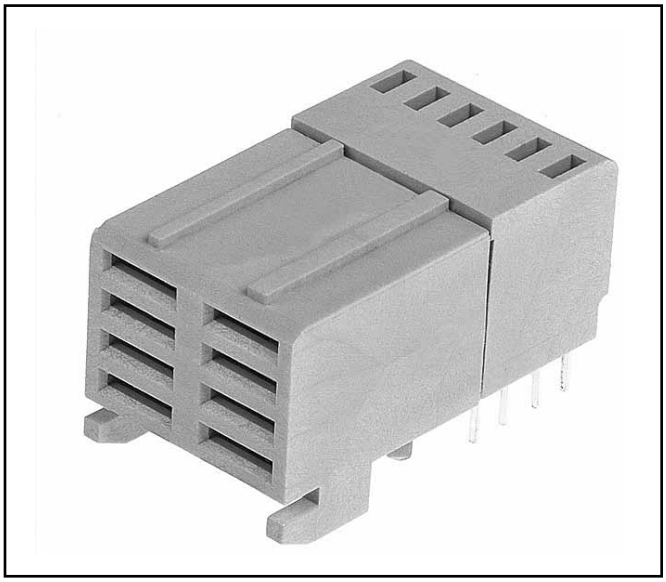
3M™ MetPak™ 2-FB Power Socket

2 mm 4/5-Row, Right Angle, Solder or Press-Fit Tail MP2 Series



- 6.50 Amps per contact
- End-to-end stackable
- Press or heat stake peg (solder tail)
- Futurebus+® compatible
- 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: August 21, 2009

Physical

Insulation:	
Material:	High Temperature LCP
Flammability:	UL 94V-0
Color:	Beige
Contact:	
Material:	Copper Alloy
Plating:	
Underplating:	50 µ" [1.27 µm] Nickel
Wiping Area:	See Ordering Information
Tails:	See Ordering Information

Electrical

Current Rating:	Power: 6.50 A per power socket contact at 70°C
Insulation Resistance:	10^3 MΩ
Withstanding Voltage:	1,500 V_{AC} for 60 seconds

Environmental

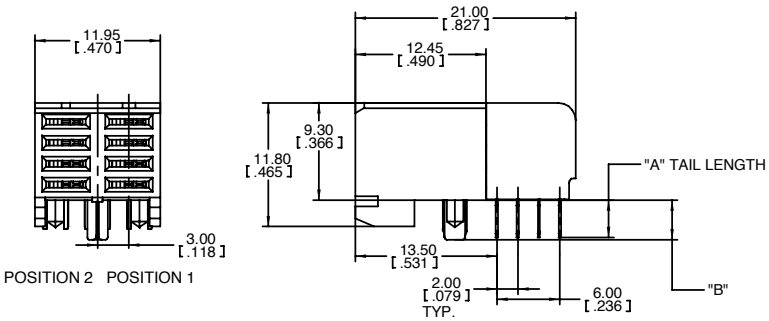
Temperature Rating:	-55° C to 125° C
Process Temperature Rating:	260°C (Profile per J-STD-020C)
Moisture Sensitivity Level:	1 (per J-STD-020C)

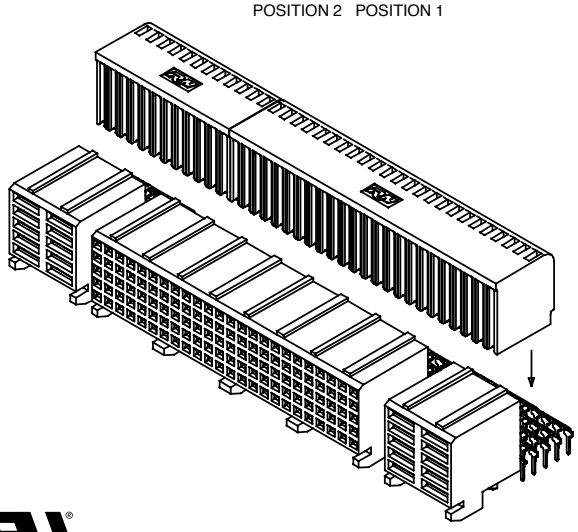
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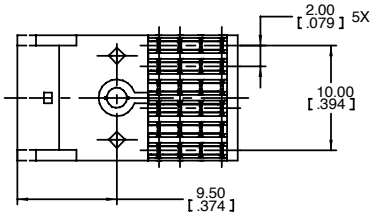
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2 mm 4/5-Row, Right Angle, Solder or Press-Fit Tail — MP2 Series







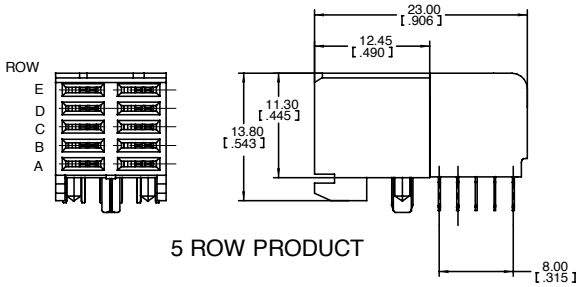
4 ROW PRODUCT

FOR SPECIAL MONOBLOCKS
CONTACT 3M SALES
REPRESENTATIVE

mm
(Inch)

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

( ) Dimensions used for
Reference Only



5 ROW PRODUCT

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-SPXX-X1XX- XXXXX

SP = Power Socket

Contact Count
(See Table 1)

Rows
4 = 4 Rows
5 = 5 Rows

Termination Style
P = Press-Fit
M = Solder Tail (Press Peg)
S = Solder Tail (Heat Stake)

Tail Length
(See Table 2)

Plating Options:
(See Table 3)

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3M™ MetPak™ 2-FB Power Socket

2 mm 4/5-Row, Right Angle, Solder or Press-Fit Tail MP2 Series

Table 1	
Pin Count	**No of Rows**
08	4
10	5

Table 2 - Tail & Post Lengths			
Contact-to-PC Board Tail Termination Option No.		**Dim. "A"**	**Dim. "B"**
Solder	Press-Fit*		
S1		2.72 [0.107]	5.20 [0.205]
S2		3.53 [0.139]	6.00 [0.236]
M1		2.72 [0.107]	3.57 [0.141]
M2	P1	3.53 [0.139]	3.57 [0.141]

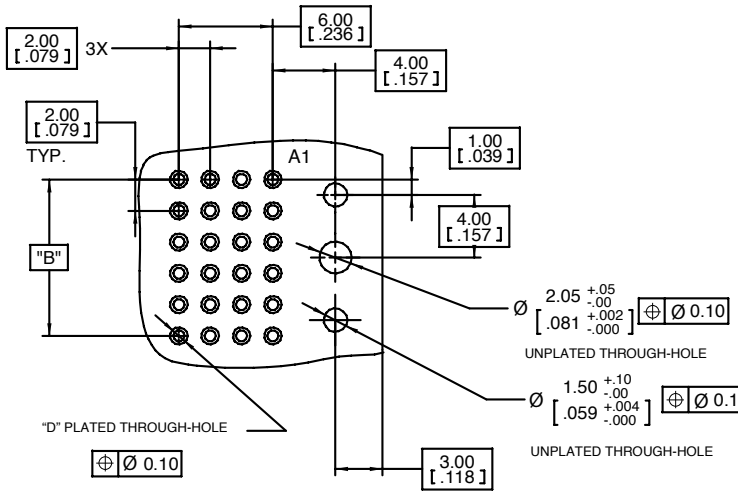
*Compliant-Pin Tail

Table 3 - Plating			
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 1.27 µm [50 µ"] Min. Ni all over

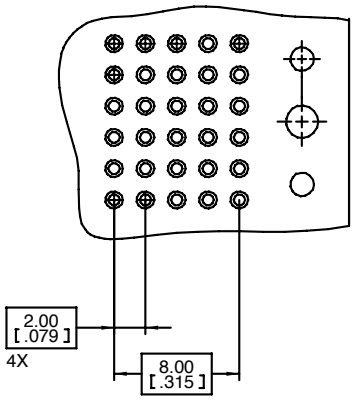
*Compliant-Pin Tail

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Recommended 4 Row PCB Hole Mounting Pattern



Recommended 5 Row PCB Hole Mounting Pattern

Table 4 -- 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 [.0256-.0315]	0.025 [.001] min	15 [600] max	0.81-0.86 [.0319-.0339]

Table 5 -- 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"]	Electrolitic Au Thickness microns [µ"]	OSP ENTEK Thickness microns [µ"]	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 0.85mm [#66] TWIST DRILL

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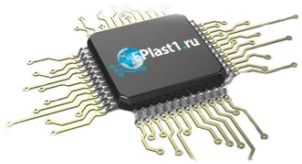
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