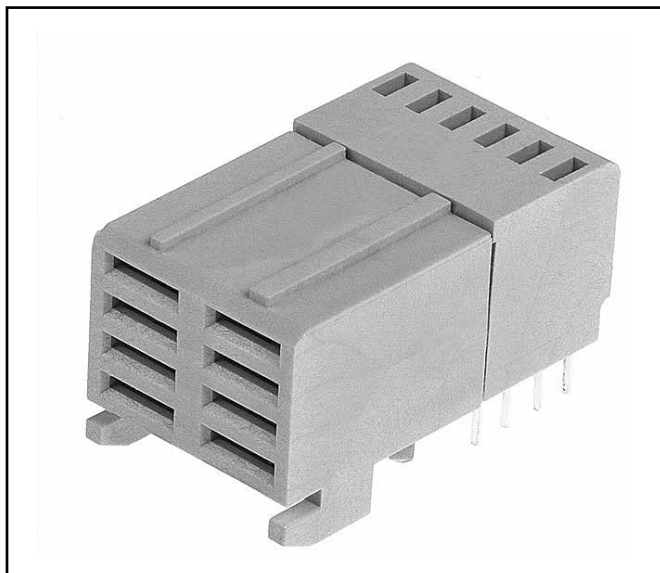


3M™ MetPak™ 2-FB Power Socket

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

Date Modified: February 14, 2017

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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: 10³ 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)

UL File No.: E68080

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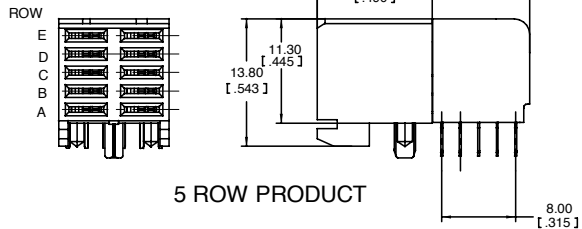


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REPRESENTATIVE



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

() Dimensions used for Reference Only



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-XXXX

SP = Power Socket

Contact Count
(See Table 1)

Rows
4 = 4 Rows
5 = 5 Rows

Plating Options:
(See Table 3)

Tail Length
(See Table 2)

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

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Sheet 2 of 4



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3M™ MetPak™ 2-FB Power Socket

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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 [0.256]
M1		2.72 [0.107]	3.75 [0.148]
M2	P1	3.53 [0.139]	3.75 [0.148]

*Compliant-Pin Tail

Table 3 - Plating			
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

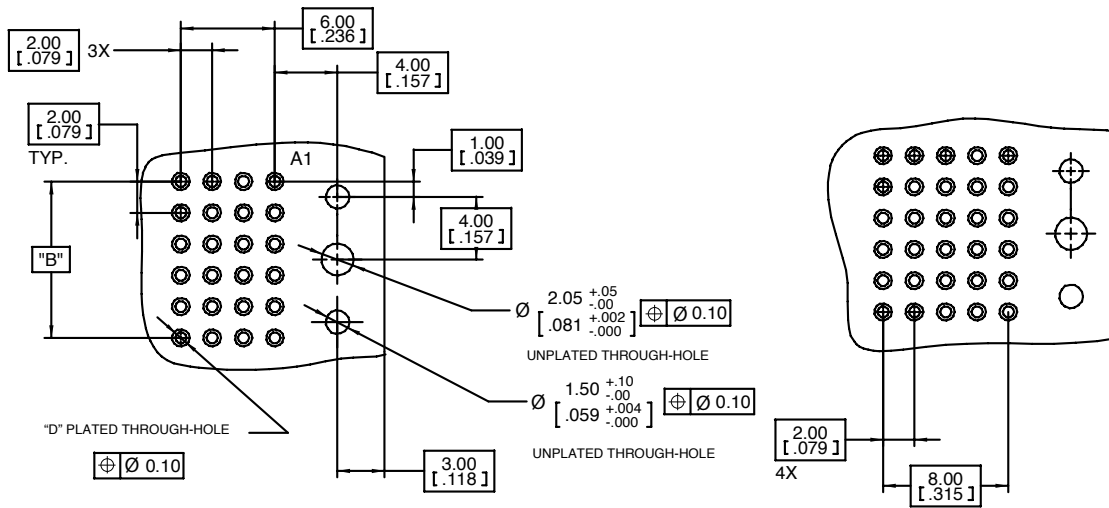
*Compliant-Pin Tail

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3M™ MetPak™ 2-FB Power Socket

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

MP2 Series



Recommended 4 Row PCB Hole Mounting Pattern

Recommended 5 Row PCB Hole Mounting Pattern

Table 4 - HOLE PLATING FINISHES

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 [.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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