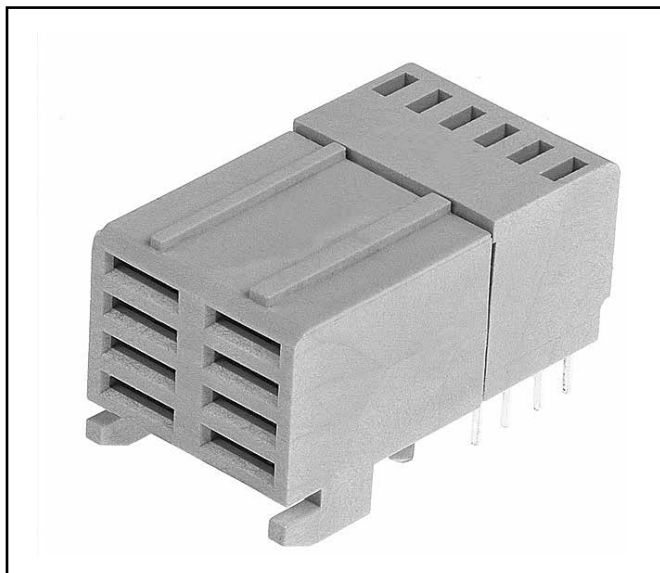


3M™ MetPak™ 2-FB Power Socket

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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3M™ MetPak™ 2-FB Power Socket

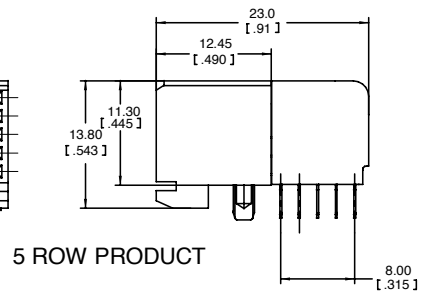
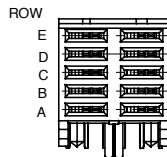
2 mm 4/5-Row, Right Angle, Solder or Press-Fit Tail

MP2 Series



| 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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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 [0.256] |
| 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 μm] Min. Au Contact Area 2.54 μm [100 μm] Min. Matt Whisker Mitigating Sn Tail Area 1.27 μm [50 μm] Min. Ni all over |
| LR | RIA E1 & C1 apply | RIA E1 & C1 apply | 0.08 μm [3 μm] Min. Au Contact Area 0.67 μm [27 μm] Min. PdNi Contact Area 2.54 μm [100 μm] Min. Matt Whisker Mitigating Sn Tail Area 1.27 μm [50 μm] Min. Ni all over |

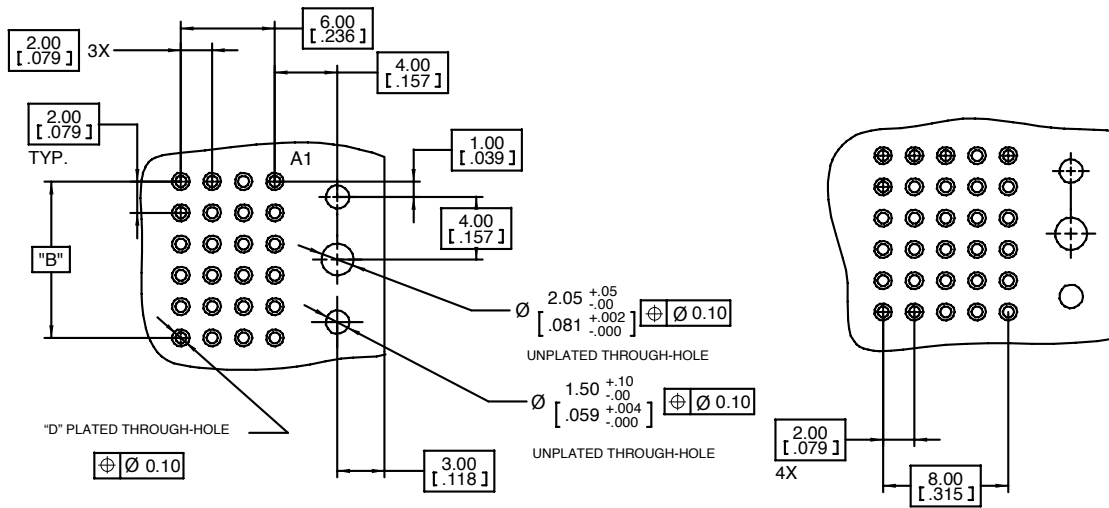
*Compliant-Pin Tail

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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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