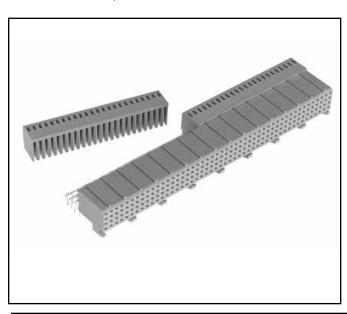
3M[™] MetPak[™] 2-FB Socket

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

MP2 Series



- End-to-end stackable
- Offset dual-beam contact minimizes insertion force
- Expanded pin counts
- Protective Push-Cap
- Monoblockable
- Press or heat stake peg
- 12 mm modular units
- Meets global IEC 61076-4-104 Futurebus+® standard
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: September 17, 2013

TS-1115-D Sheet 1 of 4

Physical

Insulation:

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

Color: Beige

Contact:

Material: Copper Alloy

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)

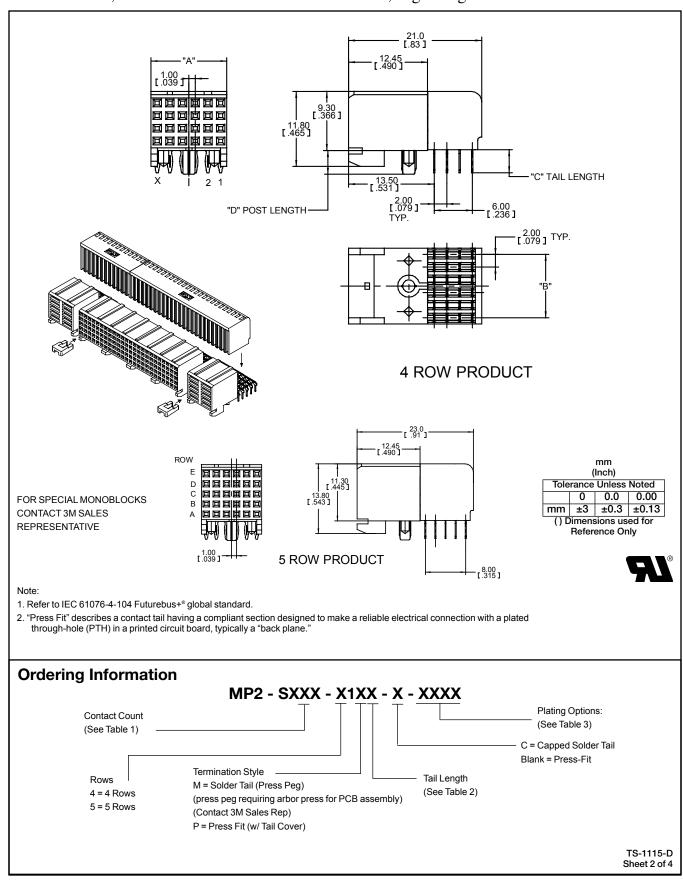
Moisture Sensitivity Level: 1 (per J-STD-020C)

MetPak is a trademark of 3M Company.

Futurebus+ is a registered trademark of the Institute of Electrical and Electronic Engineers, Inc. (IEEE)

UL File No.: E68080

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



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

| Table 1 - Connector & Row Lengths | | | | | | |
|-----------------------------------|-------------|---------|----------------------|---------|------|----------------|
| Pin Count | Dim mm (| | Dim "B" mm (Inch) | | Rows | Block Count |
| 024 | 11.95 | [0.471] | 10.00 | [0.394] | 4 | 1 |
| 048 | 23.95 | [0.943] | 22.00 | [0.866] | 4 | 2 |
| 072 | 35.95 | [1.415] | 34.00 | [1.339] | 4 | 3 |
| 096 | 47.95 | [1.889] | 46.00 | [1.811] | 4 | 4 |
| 120 | 59.95 | [2.36] | 58.00 | [2.283] | 4 | 5 |
| 144 | 71.95 | [2.833] | 70.00 | [2.756] | 4 | 6 |
| 168 | 83.95 | [3.305] | 82.00 | [3.228] | 4 | 7 |
| 192 | 95.95 | [3.778] | 94.00 | [3.701] | 4 | 8 |
| 030 | 11.95 | [0.471] | 10.00 | [0.394] | 5 | 1 |
| 060 | 23.95 | [0.943] | 22.00 | [0.866] | 5 | 2 |
| 090 | 35.95 | [1.415] | 34.00 | [1.339] | 5 | 3 |
| 120 | 47.95 | [1.888] | 46.00 | [1.811] | 5 | 4 |
| 150 | 59.95 | [2.361] | 58.00 | [2.283] | 5 | 5 |
| 180 | 71.95 | [2.833] | 70.00 | [2.756] | 5 | 6 |
| 210 | 83.95 | [3.305] | 82.00 | [3.228] | 5 | 7 |
| 240 | 95.95 | [3.778] | 94.00 | [3.701] | 5 | 8 |

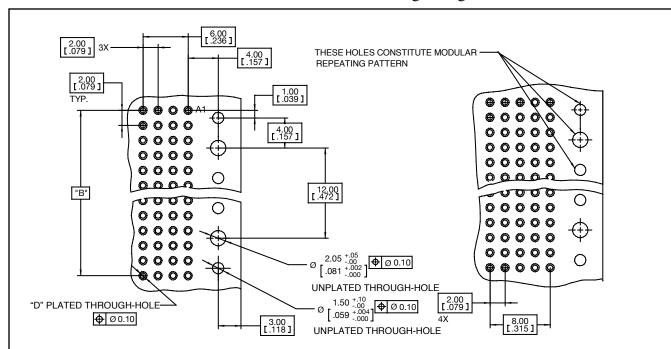
| Table 2 - Tail & Post Lengths | | | | | |
|---|------------|--------------|--------------|--|--|
| Contact-to-PC Board Tail Termina- tion Option No. | | Dim "C" | Dim. "D" | | |
| Solder | Press-Fit* | | | | |
| M1 | | 2.72 [0.107] | 3.57 [0.141] | | |
| M2 | P1 | 3.53 [0.139] | 3.57 [0.141] | | |

^{*}Compliant-Pin Tail

| Table 3 - Plating | | | | | |
|-------------------|---------------------|---------------------|---|--|--|
| Plating Suffix | Press-Fit Tails* | Solder Tails | Plating Composition | | |
| 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

TS-1115-D Sheet 3 of 4 2 mm 4/5-Row, Solder Tail or Press-Fit With Tail Cover, Right Angle



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"] | Electrolitic 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] | 0.5 - 2.5 [20 - 100] | 0.1 - 0.5 [4 - 20] | 0.2 - 0.5 [8 - 20] | 0.830-0.860 [.03300340] or 0.85mm [#66] TWIST DRILL | |

TS-1115-D Sheet 4 of 4 3M is a trademark of 3M Company.

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the legal theory asserted.

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Authorized Distributor

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3M:

MP2-S144-41M1-C-KR MP2-S024-41M2-C-LR MP2-S048-41M1-C-FJ MP2-S048-41M1-C-TR30 MP2-S072-41M1-C-TR30 MP2-S048-41M1-C-KR MP2-S096-41M1-C-FJ MP2-S030-51P1-KR MP2-S144-41M1-C-LR MP2-S192-41S1-C-FJ MP2-S192-41S1-C-KR MP2-S240-51P1-KR MP2-S240-51H2-C-TR30 MP2-S150-51M1-C-KR MP2-S024-41M2-C-TR30 MP2-S030-51M1-C-TR30 MP2-S030-51P1-TR30 MP2-S060-51M1-C-TG30 MP2-S060-51M1-C-TR30 MP2-S096-41M1-C-TG30 MP2-S120-41M2-C-TG30 MP2-S120-51M1-C-TG30 MP2-S120-51M1-C-TR30 MP2-S168-41P1-TR30 MP2-S240-51M1-C-TG30 MP2-S072-41P1-TR30 MP2-S024-41M1-C-KR MP2-S096-41M1-C-KR MP2-S120-41M2-C-KR MP2-S120-51M1-C-KR MP2-S030-51M1-C-TG30 MP2-S024-41M1-C-TG30 MP2-S024-41M1-C-LR MP2-S024-41M1-C-TR30 MP2-S024-41M2-C-KR MP2-S024-41P1-KR MP2-S024-41P1-TR30 MP2-S030-51M1-C-FJ MP2-S030-51M1-C-KR MP2-S030-51M1-C-LR MP2-S048-41M1-C-TG30 MP2-S048-41P1-LR MP2-S048-41P1-TR30 MP2-S048-41S1-C-TR30 MP2-S060-51M1-C-KR MP2-S060-51M1-C-LR MP2-S060-51M1-C-TG MP2-S060-51M2-C-TR30 MP2-S060-51P1-TG30 MP2-S060-51P1-TR30 MP2-S090-51M1-C-LR MP2-S096-41M1-C-TR30 MP2-S096-41S1-C-TR30 MP2-S120-41M1-C-TR30 MP2-S120-51H2-C-TR30 MP2-S120-51M1-C-LR MP2-S120-51P1-TR30 MP2-S150-51M1-C-LR MP2-S150-51M1-C-TR30 MP2-S180-51M1-C-TR30 MP2-S180-51P1-TG30 MP2-S180-51P1-TR30 MP2-S192-41M1-C-TG30 MP2-S192-41M1-C-TR30 MP2-S192-41M2-C-KR MP2-S192-41P1-TG30 MP2-S192-41P1-TR30 MP2-S240-51M2-C-TR30 MP2-S240-51P1-TR30 MP2-S330-51M1-C-TR30 MP2-S030-51P1-LR MP2-S120-51M2-C-TR30 MP2-S150-51M2-C-TR30 MP2-S048-41M2-C-TR30 MP2-S048-41M2-TR30 MP2-S048-41M2-TR30 MP2-S048-41M2-TR30 MP2-S048-41M2-TR30 MP2-S048-41M2-TR30 MP2-S048-41M2-TR30 MP2-41P1-KR MP2-S150-51M1-C-TG30 MP2-S096-41M2-C-TR30 MP2-S030-51S1-C-TG30 MP2-S060-51S1-C-TG30 MP2-S240-51H2-C-TG30 MP2-S096-41P1-TR30 MP2-S144-41M2-C-TR30 MP2-S060-51P1-KR MP2-S144-41P1-LR MP2-S060-51P1-LR MP2-S024-41M1-C-FJ MP2-S024-41P1-LR MP2-S120-41M2-C-LR MP2-S060-51H2-C-KR MP2-S120-51H2-C-KR MP2-S240-51H2-C-KR MP2-S240-51S1-C-KR MP2-S240-51S1-C-LR MP2-S240-51S1-C-TG30 MP2-S120-41P1-KR MP2-S360-51P1-LR MP2-S300-51M1-C-TR30 MP2-S240-51P1-LR