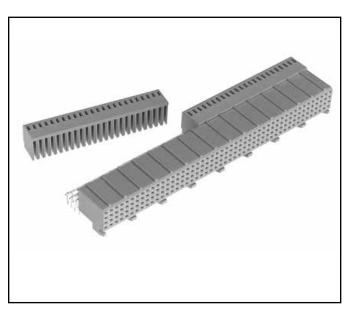
3M[™] MetPak[™] 2-FB Socket

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: $10^3 M\Omega$ **Withstanding Voltage:** $1,000 V_{AC}$

Environmental

Temperature Rating: -55° C to 125° C

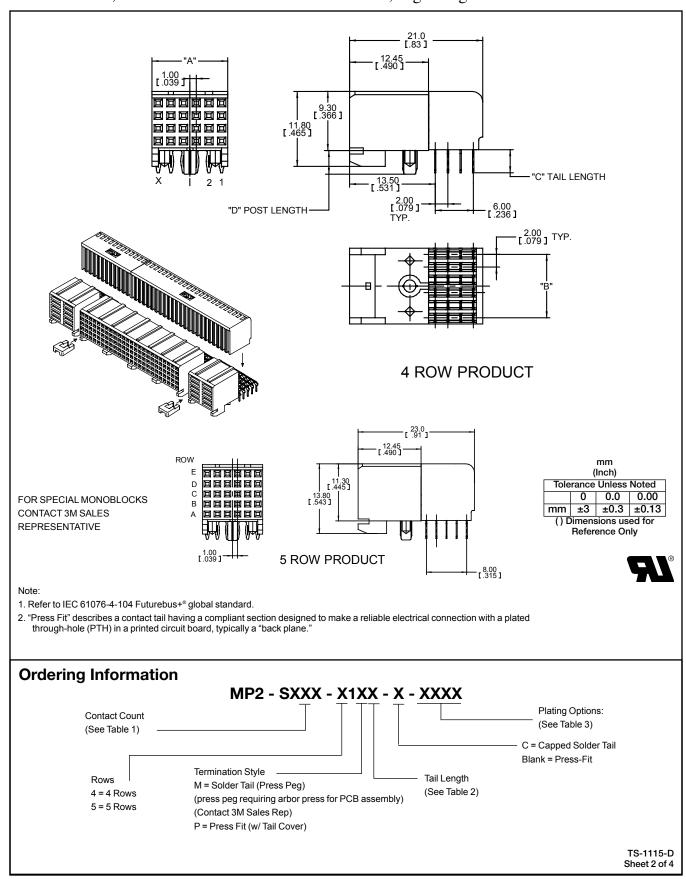
Process Temperature Rating: 260°C (Profile per J-STD-020C)

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)

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

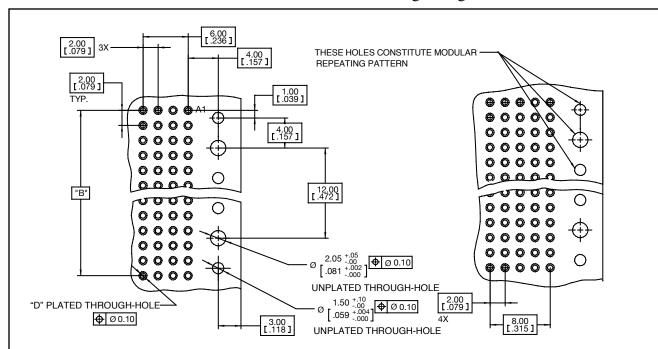
Table 2 - Tail & Post Lengths					
Contact-to-PC Board Tail Termina- tion Option No.		Dim "C"	Dim. "D"		
Solder	Press-Fit*				
M1		2.72 [0.107]	3.57 [0.141]		
M2	P1	3.53 [0.139]	3.57 [0.141]		

^{*}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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Warranty; Limited Remedy; Limited Liability.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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-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-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-S030-51P1-LR MP2-S120-51M2-C-TR30 MP2-S150-51M2-C-TR30 MP2-S048-41M2-C-TR30 MP2-S048-41P1-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