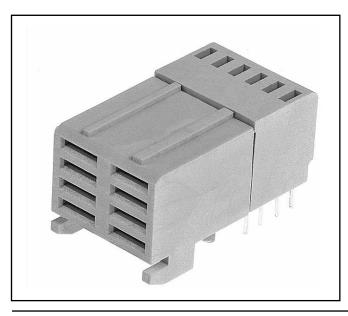
# 3M<sup>™</sup> MetPak<sup>™</sup> 2-FB Power Socket

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

TS-1125-E Sheet 1 of 4

# **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:**  $10^3 M\Omega$ 

Withstanding Voltage: 1,500 V<sub>AC</sub> for 60 seconds

### **Environmental**

**Temperature Rating:** -55° C to 125° C

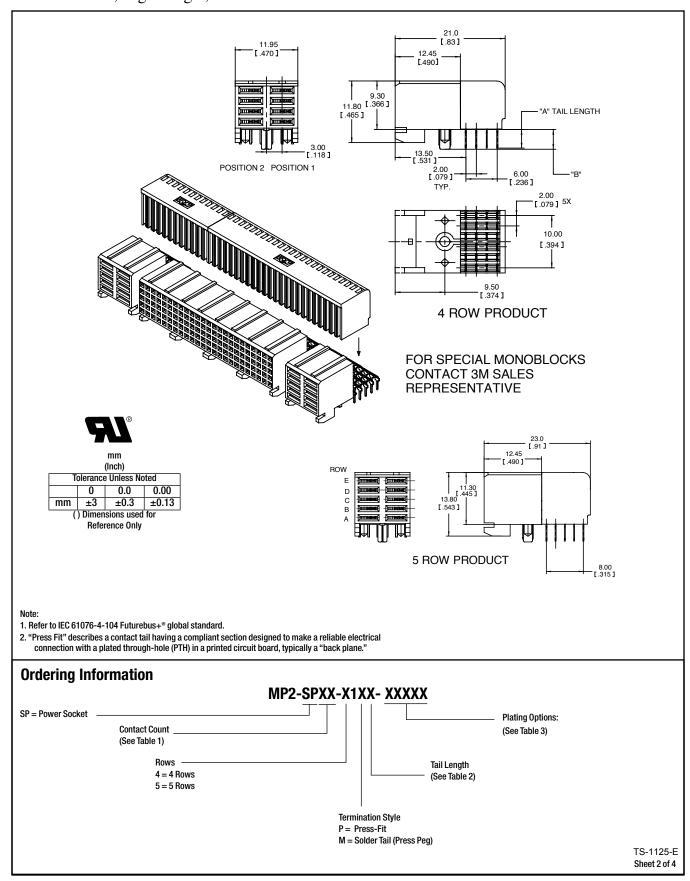
**Process Temperature Rating:** 260°C (Profile per J-STD-020C)

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

UL File No.: E68080

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

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



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

Table 1			
Pin Count	No of Rows		
08	4		
10	5		

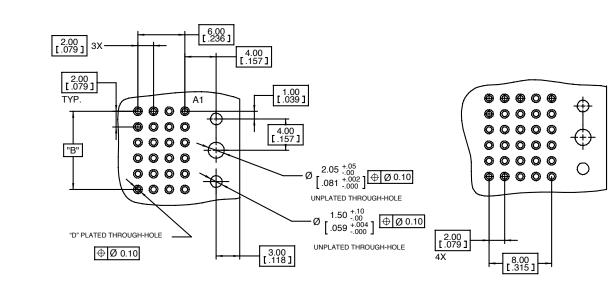
Table 2 - Tail & Post Lengths					
Contact-to-PC Board Tail Termination Option No.		Dim. "A"	Dim. "B"		
Solder	Press-Fit*		_		
S1		2.72 [0.107]	5.20 [0.205]		
S2		3.53 [0.139]	6.00 [0.256]		
M1		2.72 [0.107]	3.75 [0.148]		
M2	P1	3.53 [0.139]	3.75 [0.148]		

<sup>\*</sup>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		

<sup>\*</sup>Compliant-Pin Tail

TS-1125-E Sheet 3 of 4 2 mm 4/5-Row, Right Angle, Solder or Press-Fit Tail



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-1125-E Sheet 4 of 4 Regulatory: For regulatory information about this product, contact your 3M representative.

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