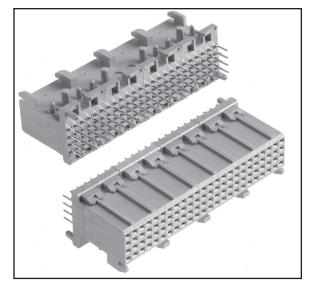
$3M^{\text{TM}}$ MetPakTM 2-FB Stacking Socket

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

MP2 Series



• End-to-end stackable

- Offset dual-beam contact minimizes insertion force
- High-profile/high pin count
- Ideal for parallel stacking applications
- Vertical receptacle
- Eliminates internal cabling
- Meets IEC 61076-4-104 Futurebus+® global standard
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: May 13, 2010	TS-1118-B
•	Sheet 1 of 4

Physical

Insulation:	
Material:	High Temp LCP
Flammability:	UL 94V-0
Color:	Beige
Contact:	
Material:	Phosphor Bronze
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:** $1000 V_{AC}$

Environmental

Temperature Rating:-55°C to +125°CProcess 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

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Electronic Solutions Division Interconnect Solutions http://www.3Mconnector.com

3M[™] MetPak[™] 2-FB Stacking Socket

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

"A' 20.00 ±.38 MP2-HXXX-XXXX-XXXX [.787 ±.015] 'R' 2.00 [.079] TYP 0.63 ⊢ ⊢ MP2-SSXXX-X1XX-XXXX MATED WITH MP2-HXXX-XXXX-XXXX POSITION 2 2.00 [.079] 3X-3.63 [.143] ROW "C" TAIL LENGTH 2.00 .079] 4X 3.63 [.143] Е aaaaaaa D С 0000000 В 16.50 А [.650] A 14 50 U [.571] 8.00 6.00 [.236] [.315] **5 ROW PRODUCT 4 ROW PRODUCT** (⊕ ()(⊕ mm [inch] V Ŵ Ŵ **Tolerance Unless Noted** Λ 0.0 0.00 3.02 [.119] **SOLDER TAIL OR** ±3 ±0.3 ±0.13 mm PRESS FIT [] Dimensions for Reference Only Notes: 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 - <u>SSXXX - X1XX - XXXXX</u> Plating Options Stacking Socket (See Table 3) Contact Count (See Table 1) Tail Length Rows (See Table 2) 4 = 4 Rows 5 = 5 Rows Termination Style P = Press-Fit (with Tail Cover) S = Solder Tail TS-1118-B Sheet 2 of 4

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MP2 Series

$3M^{\text{TM}}$ MetPakTM 2-FB Stacking Socket

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

	Table 1 - Connec	tor & Row Length	ıs	
Pin Count	Dim."A" mm [inch]	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 Length Options		
Contact-to-PC Board Tail Termination Option No.		Dim."C"
Solder	Press-Fit*	
1	1	3.53 [0.139]

*Compliant-Pin Tail

	Table 3 - Plating & Regulatory			
Plating Suffix	Press-Fit Tails*	Solder Tails	Plating Composition	
TG30	RIA E2 & C2 apply	RIA E3 & C2 apply	0.76 μm [30 μ"] Min. Au Contact Area 2.54 μm [100 μ"] Min. SnPb Tail Area 1.27 μm [50 μ"] Min. Ni all over	
TR30	RIA E2 & C2 apply	RIA E3 & C2 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. SnPb Tail Area 1.27 μm [50 μ"] Min. Ni all over	
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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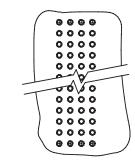
$3M^{\text{TM}}$ MetPakTM 2-FB Stacking Socket

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

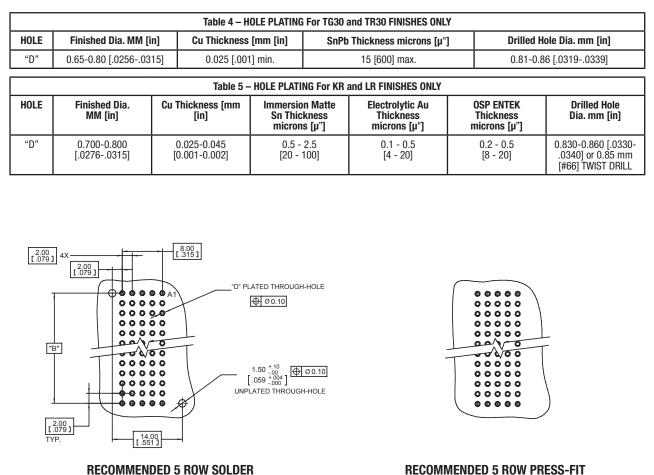
6.00 [.236] 2.00 [.079] "D" PLATED THROUGH-HOLE • • • A1 ⊕ Ø 0.10 000 6000 2.00 [.079] 0000 0,00 Ô TYP 6 "B" 010 0000 ø 0000 0000 UNPLATED THROUGH-HOLE 0000 2.00 [.079] 3X 12.00

F→ [1.472] RECOMMENDED 4 ROW SOLDER TAIL PCB HOLE MOUNTING PATTERN

TAIL PCB HOLE MOUNTING PATTERN



RECOMMENDED 4 ROW PRESS-FIT PCB HOLE MOUNTING PATTERN



PCB HOLE MOUNTING PATTERN

TS-1118-B Sheet 4 of 4

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