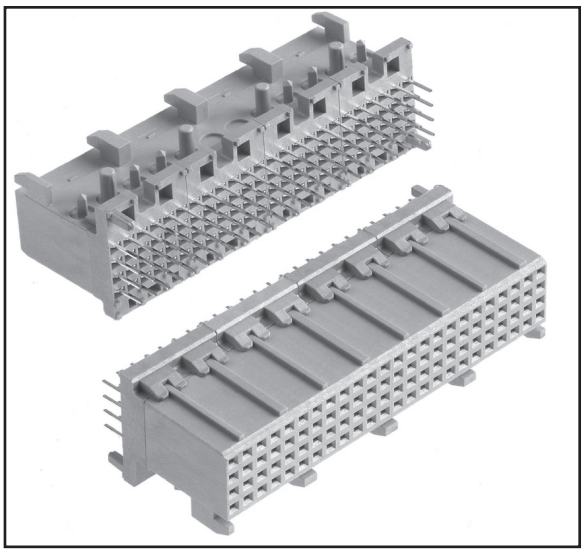
3M™ MetPak™ 2-FB Stacking Socket

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

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 MΩ
Withstanding Voltage:	1000 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)

UL File No.: E68080

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

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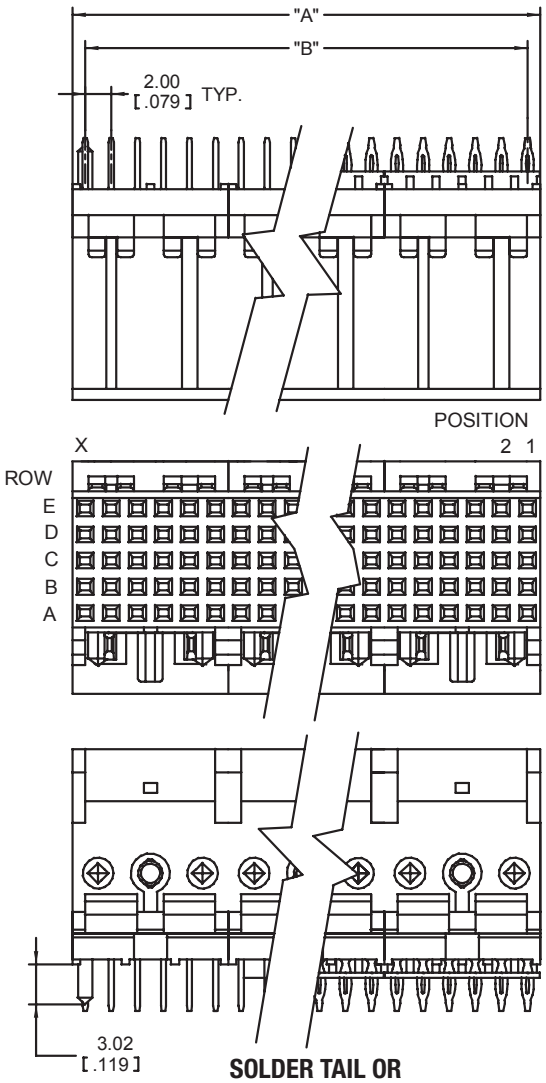
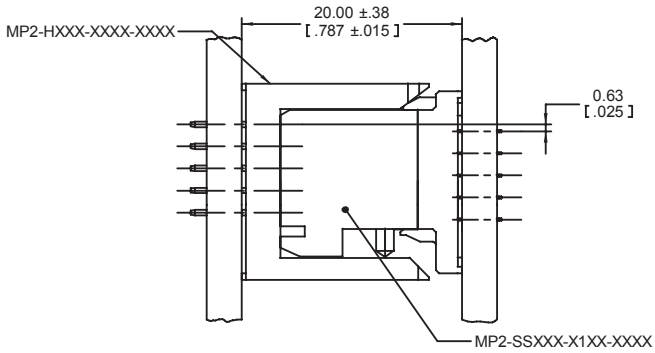
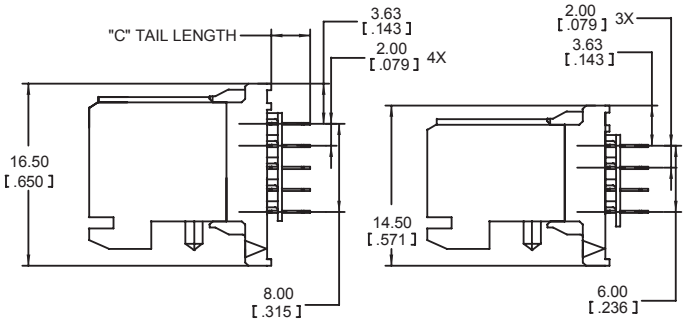


SOLDER TAIL OR PRESS FIT



MATED WITH MP2-HXXX-XXXX-XXXX



5 ROW PRODUCT **4 ROW PRODUCT**

mm
[inch]

Tolerance Unless Noted			
	0	0.0	0.00
mm	±3	±0.3	±0.13

[ ] 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 - SSXXX - X1XX - XXXXX

- Stacking Socket
- Contact Count (See Table 1)
- Rows
  - 4 = 4 Rows
  - 5 = 5 Rows
- Termination Style
  - P = Press-Fit (with Tail Cover)
  - S = Solder Tail
- Tail Length (See Table 2)
- Plating Options (See Table 3)

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Table 1 - Connector & Row Lengths				
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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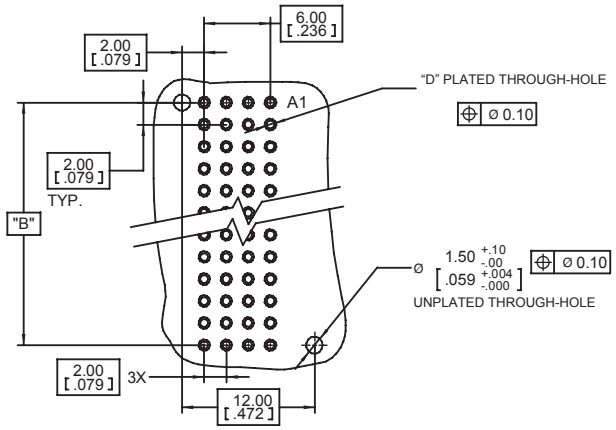
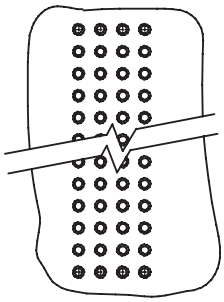


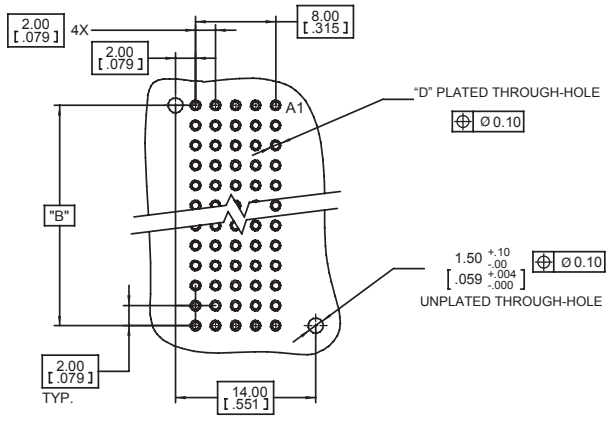
RECOMMENDED 4 ROW SOLDER TAIL PCB HOLE MOUNTING PATTERN



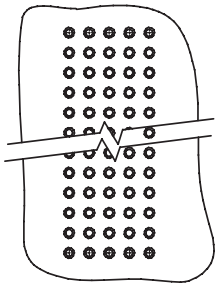
RECOMMENDED 4 ROW PRESS-FIT PCB HOLE MOUNTING PATTERN

Table 4 – HOLE PLATING For TG30 and TR30 FINISHES ONLY				
HOLE	**Finished Dia. MM [in]**	**Cu Thickness [mm [in]**	**SnPb Thickness microns [µ"]**	**Drilled Hole Dia. mm [in]**
"D"	0.65-0.80 [.0256-.0315]	0.025 [.001] min.	15 [600] max.	0.81-0.86 [.0319-.0339]

Table 5 – HOLE PLATING For KR and LR FINISHES ONLY						
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 0.85 mm [#66] TWIST DRILL



RECOMMENDED 5 ROW SOLDER TAIL PCB HOLE MOUNTING PATTERN



RECOMMENDED 5 ROW PRESS-FIT PCB HOLE MOUNTING PATTERN

TS-1118-B
Sheet 4 of 4

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RIA-2217B-E

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
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- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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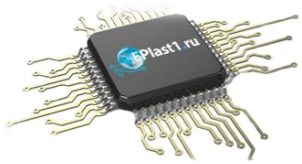
- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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