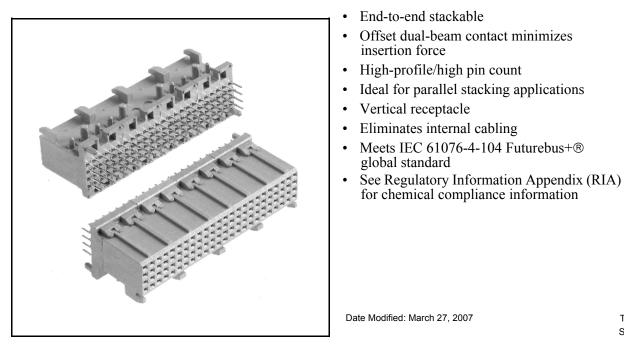
3M[™] MetPak[™] 2-FB Stacking Socket

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

TS-1118-05 Sheet 1 of 3



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

Environmental

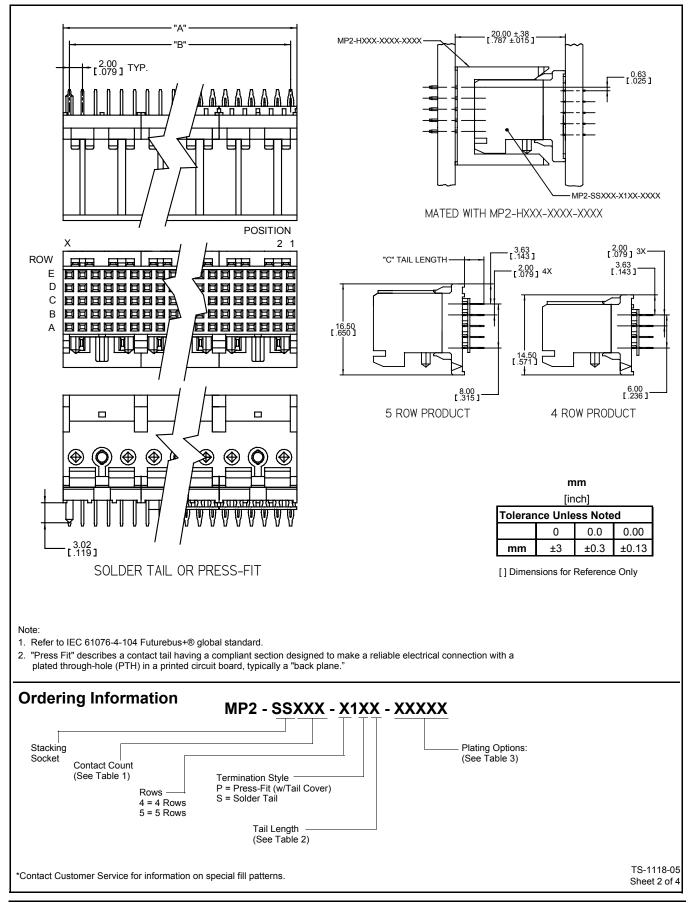
Temperature Rating:-55°C to +125°CProcess Temperature Rating:260°C (Profile per J-STD-020C)Moisture Sensitivity Level:1 (per J-STD-020C)

MetPak is a trademark of 3M Company. * Futurebus+ is a registered trademark of the Institute of Electrical and Electronic Engineers, Inc. (IEEE).

3M[™] MetPak[™] 2-FB Stacking Socket

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

MP2 Series



3M[™] MetPak[™] 2-FB Stacking Socket 2 mm 4/5-Row, Vertical, Solder or Press-Fit Tail

MP2 Series

Table 1 - Connector & Row Lengths						
Pin Count	Dim. "A" mm [inch]			"B" [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

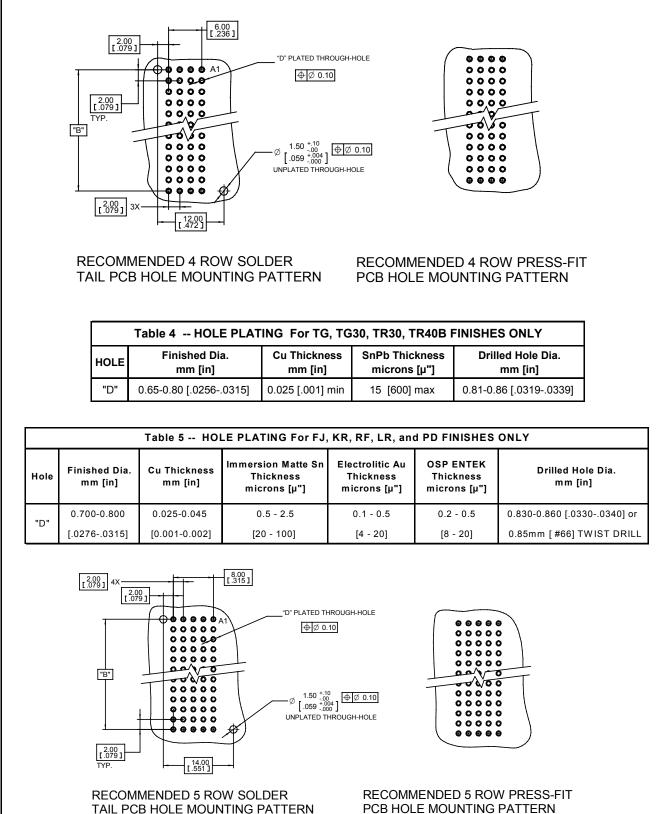
Table 2 - Tail Length						
Contact-to-PC Termination C	Dim. "C"					
Solder	Press-Fit*					
2		2.72	[0.107]			
1	1	3.53	[0.139]			
*Compliant-Pin Ta	ail					

Plating	Press-Fit Tails*	Solder Tails	Plating Composition
Suffix			0.25 µm [10 µ"] Min. Au Contact Area
TG	RIA E2 & C2	RIA E3 & C2	2.54 μm [100 μ"] Min. SnPb Tail Area
10	apply	apply	1.27 μm [50 μ"] Min. Ni all over
			0.76 μm [30 μ"] Min. Au Contact Area
TG30	RIA E2 & C2	RIA E3 & C2 apply	2.54 µm [100 µ"] Min. SnPb Tail Area
	apply		1.27 μm [50 μ"] Min. Ni all over
			0.08 µm [3 µ"] Min. Au Contact Area
	RIA E2 & C2	RIA E3 & C2	0.67 µm [27 µ"] Min. PdNi Contact Area
TR30	apply	apply	2.54 µm [100 µ"] Min. SnPb Tail Area
			1.27 μm [50 μ"] Min. Ni all over
	1		0.13 µm [5 µ"] Min. Hard Au Contact Area, Lubricated
			1.02 μm [40 μ"] Min. PdNi Contact Area
TR40B	RIA E2 & C2 apply	RIA E3 & C2 apply	0.10 µm [4 µ"] Min. Pd Contact Area
	appiy	appiy	2.54 μm [100 μ"] Min. SnPb Tail Area
			1.27 μm [50 μ"] Min. Ni all over
	RIA E1 & C1	RIA E1 & C1	0.25 µm [10 µ"] Min. Au Contact Area
FJ	apply	apply	5.08 µm [200 µ"] Min. Matt Whisker Mitigating Sn Tail Area
			1.27 μm [50 μ"] Min. Ni all over
	RIA E1 & C1	RIA E1 & C1	0.76 µm [30 µ"] Min. Au Contact Area
KR	apply	apply	5.08 µm [200 µ"] Min. Matt Whisker Mitigating Sn Tail Area
			1.27 µm [50 µ"] Min. Ni all over
	RIA E1 & C1	RIA E1 & C1	1.27 µm [50 µ"] Min. Au Contact Area, Lubricated
RF	apply	apply	5.08 µm [200 µ"] Min. Matt Whisker Mitigating Sn Tail Area
			1.27 μm [50 μ"] Min. Ni all over
			0.08 µm [3 µ"] Min. Au Contact Area
LR	RIA E1 & C1	RIA E1 & C1	0.67 µm [27 µ"] Min. PdNi Contact Area
	apply	apply	5.08 µm [200 µ"] Min. Matt Whisker Mitigating Sn Tail Area
			1.27 μm [50 μ"] Min. Ni all over
			0.13 µm [5 µ"] Min. Hard Au Contact Area, Lubricated
	RIA E1 & C1	I RIA E1 & C1 apply	1.02 µm [40 µ"] Min. PdNi Contact Area
PD	apply		0.10 µm [4 µ"] Min. Pd Contact Area
			5.08 µm [200 µ"] Min. Matt Whisker Mitigating Sn Tail Area
			1.27 μm [50 μ"] Min. Ni all over

ЗМ **Interconnect Solutions** http://www.3M.com/interconnects/ TS-1118-05 Sheet 3 of 4

3M[™] MetPak[™] 2-FB Stacking Socket

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



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Sheet 4 of 4

MP2 Series

EUROPE

Appendix E1: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product is RoHS Compliant 2005/95/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/ EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E2: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/ EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E3: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

This product contains lead in the solder tail area in excess of the maximum concentration value allowed.

Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E4: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains decaBDE in the insulating material in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/17/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.



Appendix C1: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does not** contain any of the following substances in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.



Appendix C2: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

The numerical reference in the symbol above should not be construed as a representation regarding the product's life or an extension of a product warranty. The product warranty is stated below. In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the product Warranty stated below.

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
端子镀层(contact plating)	×	0	0	0	0	0
 O:表示该有毒有害物质在该部件所有 hazardous substance contained in SJ/T11363-2006.) X:表示该有毒有害物质至少在该部件 hazardous substance contained in requirement in SJ/T11363-2006.) 	all of the 牛的某一均/	e homogeneo 贡材料中的含	us materia 含量超出SJ/	ls for this part F11363-2006 标准规	is below the limi 定的限量要求。(1r	t requirement in ndicates that this

产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of ninety (90) days from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**



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