3MTM DIN R-Form Plug

.100" Inverse Mount, Vertical, Solder Tail or Press-Fit Termination





- Early mate late break (EMLB) grounding contacts for hot swapping
- Select load capability
- Expanded pin counts
- Optional press-fit or solder tail termination
- Optional retention clips
- Mates with R-form and C-form sockets
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: February 20, 2008 TS-1133-D Sheet 1 of 4 **Physical Insulation:** Material: Glass Filled Polyester (PCT) Flammability: UL 94V-0 Color: Gray or Black **Contact:** Material: Copper Alloy **Plating:** Underplating: 50 µ" [1.27 µm] Min. Nickel Wiping Area: (See Ordering Information) Termination Area: (See Ordering Information) Marking: Part Number and Date Code **Electrical** Contact Resistance: $20 \text{ m}\Omega$ Max. Current Rating: 3.0 A @ 30°C T-rise above ambient

Insulation Resistance: $1 \times 10^3 M\Omega$ min. at 500 V_{DC}

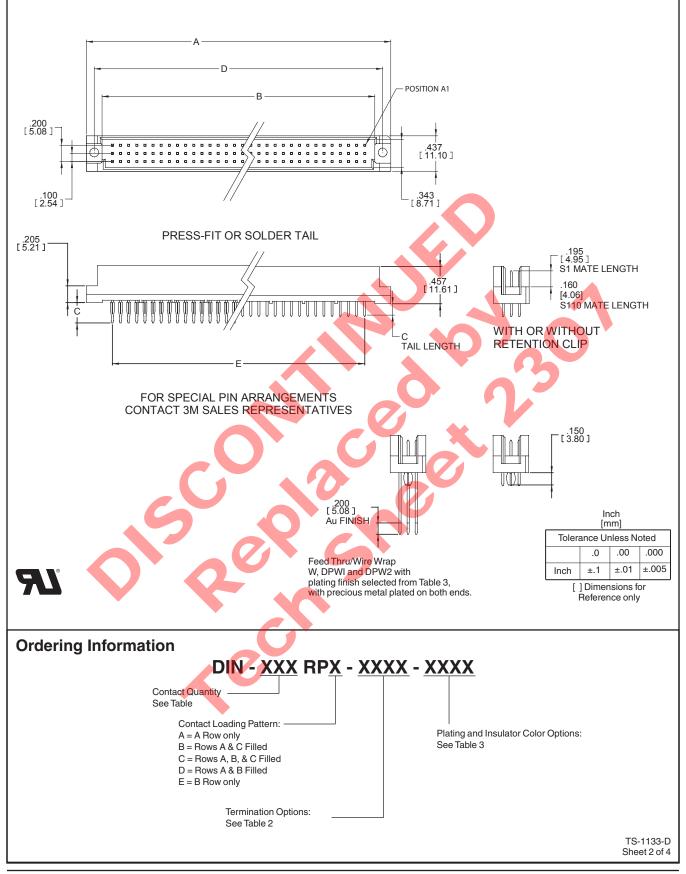
Withstanding Voltage: $1 \times 10^3 V_{AC}$ for 1 minute

Environmental

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

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3M Electronic Solutions Division Interconnect Solutions http://www.3M.com/interconnects/

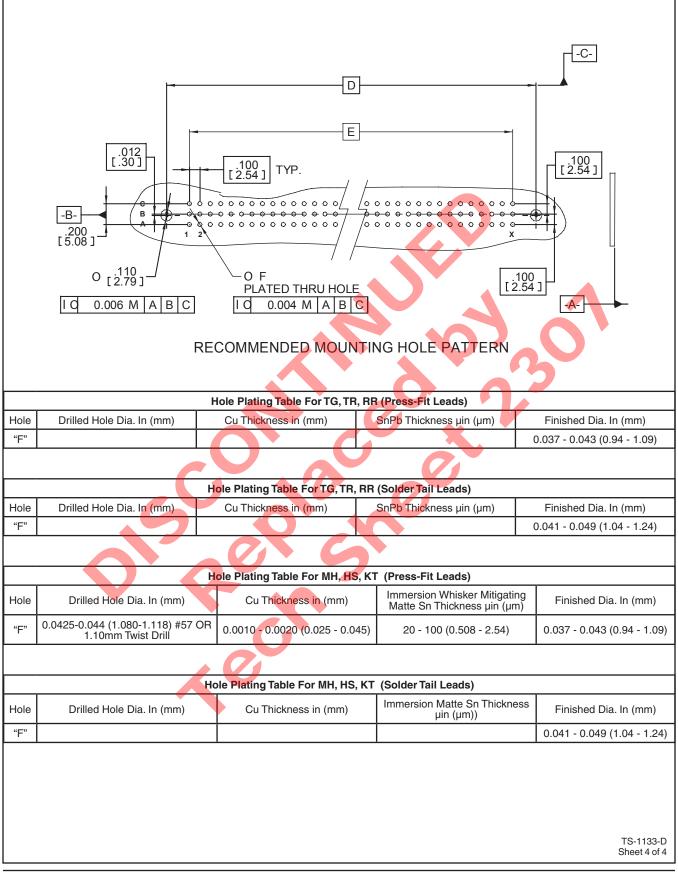
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$3M^{\text{TM}} DIN \, R\text{-}Form \, Plug \\ .100" \, \text{Inverse Mount, Vertical, Solder Tail or Press-Fit Termination}$

Table 1									
Conta Quanti				В	D	E			
016		A	2.140 [54.36]	1.754 [44.55]	1.943 [49.35]	1.500 [38.10]			
032		В	2.140 [54.36]	1.754 [44.55]	1.943 [49.35]	1.500 [38.10]			
048		С	2.140 [54.36]	1.754 [44.55]	1.943 [49.35]	1.500 [38.10]			
032		D	2.140 [54.36]	1.754 [44.55]	1.943 [49.35]	1.500 [38.10]			
016		E	2.140 [54.36]	1.754 [44.55]	1.943 [49.35]	1.500 [38.10]			
032		A B	3.740 [95.00] 3.740 [95.00]	<u>3.354 [85.19]</u> <u>3.354 [85.19]</u>	<u>3.543 [89.99]</u> <u>3.543 [89.99]</u>	3.100 [78.74] 3.100 [78.74]			
096		C	3.740 [95.00]	3.354 [85.19]	3.543 [89.99]	3.100 [78.74]			
064		D	3.740 [95.00]	3.354 [85.19]	3.543 [89.99]	3.100 [78.74]			
032		E	3.740 [95.00]	3.354 [85.19]	3.543 [89.99] 3.100 [78.74]				
040		A	4.540 [115.32]	4.154 [105.51]	4.343 [110.31]	3.900 [99.06]			
080		В	4.540 [115.32]	4.154 [105.51]	4.343 [110.31]	3.900 [99.06]			
120		С	4.540 [115.32]	4.154 [105.51]	4.343 [110.31]	3.900 [99.06]			
080		D	4.540 [115.32]	4.154 [105.51]	4.343 [110.31]	3.900 [99.06]			
040		E	4.540 [115.32]	4.154 [105.51]	4.343 [110.31]	3.900 [99.06]			
050		A 5.540 [140.72]		5.154 [130.91]	5.343 [135.71]	4.900 [124.46]			
100		B 5.540 [140.72]		5.154 [130.91]	5.343 [135.71]	4.900 [124.46]			
150		C D	5.540 [140.72] 5.540 [140.72]	5.154 [130.91]	5.343 [135.71] 5.343 [135.71]	4.900 [124.46] 4.900 [124.46]			
050		E	5.540 [140.72]	5.154 [130.91]	5.343 [135,71]	4.900 [124.46]			
		-	0.0.10 [1.10112]						
				Table 2					
	s	older Termina	ation Option No	DIM "C" in (mn	n) Comn	pents			
			1	0.157 (3.99)	with reten				
			61	0.157 (3.99)					
		S110 0.110 (2.79)							
		W 0.512 (13.00)							
	Pr	Press-fit Termination Option No							
			PS W1		0.189 (4.80)				
			W2	0.669 (16.99)	0.512 (13.00)				
		DI		0.000 (10.00)					
				Table 3					
	Plating Suffix	Insulator Color	Press-Fit Terminations	Solder Tail Terminations	Plating Compo	sition			
	TG30	Gray	(RIA E2 & C2 apply)	(RIA E3 & C2 apply)	0.76 µm [30 µ"] Min. Au Contact Are 2.54 µm [100 µ"] Min. SnPb Tail Are 1.27 µm [50 µ"] Min. Ni all over	a			
	TR	Gray	(RIA E2 & C2 apply)	(RIA E3 & C2 apply)	0.08 µm [3 µ"] Min. Au Contact Area 0.18 µm [7 µ"] Min. PdNi Contact Ar 2.54 µm [100 µ"] Min. SnPb Tail Are 1.27 µm [50 µ"] Min. Ni all over	rea			
	RR	Gray	(RIA E2 & C2 apply)	N/A	0.08 µm [3 µ"] Min. Au over 0.18 µm [7 µ"] Min. PdNi Contact Area (each 2.54 µm [100 µ"] Min. SnPb Term. A 1.27 µm [50 µ"] Min. Ni all over	end)			
	НМ	Gray	(RIA E1 & C1 apply)	N/A	0.08 μm{3 μ"] Min. Au over 0.18 μm [7 μ"] Min. PdNi Contact Area 5.08 μm [200 μ"] Min. RoHS Compliant Whisker Mitigating Matte Sn Term. Area 1.27 μm [50 μ"] Min. Ni all over				
	MH	Black	(RIA E1 & C1 apply)	(RIA E1 & C1 apply)	0.76 µm [30 µ"] Min. Au Contact Are 5.08 µm [200 µ"] Min. Reflowed Mai Whisker Mitigating Sn Term. Area 1.27 µm [50 µ"] Min. Ni all over	tte			
	HS	Black	(RIA E1 & C1 apply)	(RIA E1 & C1 apply)	0.08 µm [3 µ"] Min. Au over 0.18 µm [7 µ"] Min. PdNi Contact Area 5.08 µm [200 µ"] Min. Reflowed Mai Whisker Mitigating Sn Term. Area 1.27 µm [50 µ"] Min. Ni all over				
	KT	Black	(RIA E1 & C1 apply)	(RIA E1 & C1 apply)	0.25 µm [10 µ"] Min. Au Contact Are 5.08 µm [200 µ"] Min. Reflowed Ma Whisker Mitigating Sn Term. Area 1.27 µm [50 µ"] Min. Ni all over				
						Sheet 3 014			

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Regulatory Information Appendix

3M Electronic Solutions Division/Interconnect

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 2005/717/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 E5: European Union RoHS

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

This product contains lead in excess of the maximum concentration value allowed but is compliant by exemption under Item 6 of the Annex to the Directive.

"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.

CHINA 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.

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

部件名称	有毒有害物质或元素 (Hazardous Substances or Elements)							
(Part or Component Name)	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均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.) ×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)								

Appendix C3: China RoHS 4

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.

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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

部件名称	有毒有害物质或元素 (Hazardous Substances or Elements)					
(Part or Component Name)	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
合金(Metal alloy)	×	0	0	0	0	0

O: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的假量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.) ×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)



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