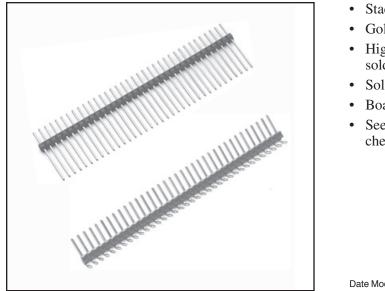
3M[™] Pin Strip Header Single and Dual Row

.100", .235"/.318" Mating Length, Straight & Right Angle, Solder Tails

929 Series



- Stackable
- Gold, Matte Sn, or Tin-Lead plating options
- High Temperature (PCT) plastic for Wave or IR soldering
- Solder stand-off for wave soldering
- Board pin retention feature option
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: November 6, 2008

TS-0769-E Sheet 1 of 4

Physical

Insulation:	
Material:	Glass Filled Polyester (PBT) or High Temperature (PCT)
Flammability:	UL 94V-0
Color:	Black
Contact:	
Material:	Copper Alloy
Plating:	
Underplating:	50 μ" [1.27 μm] Nickel
Wiping Area and Solder Tails:	See ordering information (Gold, Matte Tin, Tin-Lead options)
Marking	None

Marking: None

Electrical

Current Rating: 2.5 A

Insulation Resistance: $> 5 \times 10^{9} \Omega$ at $500 V_{DC}$ Withstanding Voltage: $1500 V_{RMS}$ at Sea Level

Environmental

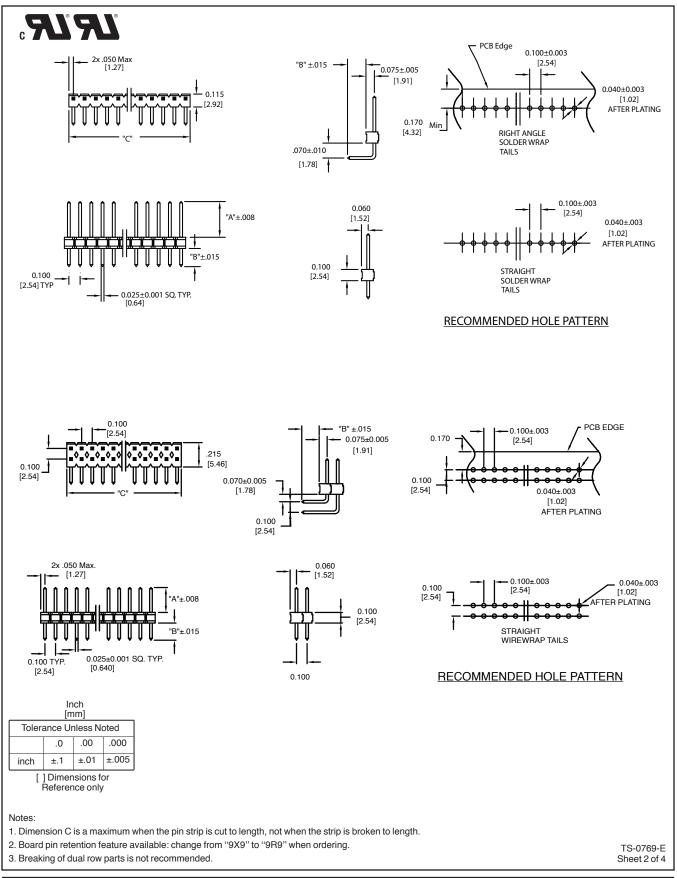
Temperature Rating:-40°C to +105°CProcess Rating:260°C (per J-STD-020C) for PCT parts only
(PBT insulator version), maximum insulator temperature 191°C
(Solder Wave Process Only)Moisture Sensitivity Level:Level 1 (per J-STD-020C) for PCT parts

UL File No.: E68080

$3M^{TM}$ Pin Strip Header Single and Dual Row

.100", .235"/.318" Mating Length, Straight & Right Angle, Solder Tails

929 Series



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3MTM Pin Strip Header Single and Dual Row .100", .235"/.318" Mating Length, Straight & Right Angle, Solder Tails

929 Series

	Sing	le Row Tail	Length Code		Та	able 2		
		Table	Pin Quantity Per Row	Dimension C (see note 1)				
Platin	3M Part	Tail Length	Dime	ensions	01	0.10 [2.5]	-	
1 Iddin	9 Number	Code	A	В	02	0.20 [5.1]		
		01		0.110 [2.79]	03	0.30 [7.6]		
		09		0.145 [3.68]	04	0.40 [10.2]		
		02	1	0.210 [5.33]	05	0.50 [12.7]		
	929647		0.235 [5.97]		06	0.60 [15.2]		
	Straight	03		0.410 [10.41]	07	0.70 [17.8]	_	
		04	4	0.510 [12.95]	08	0.80 [20.3]	_	
		05		0.610 [15.49]	09	0.90 [22.9] 1.00 [25.4]	_	
Gold		07		0.910 [23.11]	10	1.10 [27.9]		
	929648	01	0.235 [5.97]	0.110 [2.79]	12	1.20 [30.5]		
	Right Angle		0.200 [0.97]	0.110 [2.79]	13	1.30 [33.0]		
		01		0.110 [2.79]	14	1.40 [35.6]		
	929705	11	0.010.000	0.125 [3.18]	15	1.50 [38.1]		
	Straight	09	0.318 [8.08]	0.145 [3.68]	16	1.60 [40.6]		
		06	1	0.710 [18.03]	17	1.70 [43.2]		
		01		0.110 [2.79]	18	1.80 [45.7]		
		-	0.235 [5.97]		19	1.90 [48.3]	_	
		02		0.210 [5.33]	20	2.00 [50.8] 2.10 [53.3]	_	
	929834	03		0.410 [10.41]	21	2.20 [55.9]	_	
	Straight	04		0.510 [12.95]	23	2.30 [58.4]		
		05		0.610 [15.49]	24	2.40 [61.0]		
		07		0.910 [23.11]	25	2.50 [63.5]		
Tin	929835	01	0.235 [5.97]	0.110 [2.79]	26	2.60 [66.0]		
	Right Angle			0.110 [2.79]	27	2.70 [68.6]		
		01		0.110 [2.79]	28	2.80 [71.1]		
	929700 Straight	11	0.318 [8.08]	0.125 [3.18]	29	2.90 [73.7]		
	et alg	06	1	0.710 [18.03]	30 31	3.00 [76.2]		
	929730		0.010.000	0.440 [0.70]	31	3.10 [78.7] 3.20 [81.3]	-	
	Right Angle	01	0.318 [8.08]	0.110 [2.79]	33	3.30 [83.8]		
					34	3.40 [86.4]		
					35	3.50 [88.9]		
					36	3.60 [91.4]		
					30	3.60 [91.4]		
Ingle R	ow Ordering			<u>Gold</u> (X-XX-XX-X	Х			
	2 = No Pin R = Pin Re				Gold Plating Suffix			
Location & Thickness (see table 1)								
on Dim A and plating) (RIA E1 & C1 apply)								
(see table 1) Tail Length Code $EU = 10 \mu^{"} [0.25 \mu m]$ all over, PCT insulator (RIA E1 & C1 apply)								
			ee table 1)	Tin	(,			
	2 = No Pin	Retention	9 <u>X</u> 9 <u>X</u> 2	<u> </u>	X			
	R = Pin Re	tention			Plating Suffix:			
3M Part Number (select from Table 1 blank = 100 µ" [2.54 µm] tin-lead, PBT insulator (RIA E3 & C2 apply)								
	based on Dim A and p	plating)		Pin Quantity Per Row	RK = 200 μ " [5 μ m] matte			

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3MTM Pin Strip Header Single and Dual Row .100", .235"/.318" Mating Length, Straight & Right Angle, Solder Tails

929 Series

	Du	al Row Tail L	ength Code			Table 4	
	,	Table	-		Pin Quantity Per Row	Pin Quantity Total Dual Row	Dimension C (see note 1)
Plating 3M Part		Tail Length	Dim	nensions	01	02	0.10 [2.5]
riaang	Number	Code	A	В	02	04	0.20 [5.1]
		01		0.110 [2.79]	03	06	0.30 [7.6]
		09		0.145 [3.68]	04	08	0.40 [10.2]
		02		0.210 [5.33]	05	10	0.50 [12.7]
	929665 Straight	08	0.235 [5.97]	0.310 [7.87]	06	12	0.60 [15.2]
	Ottaight	03		0.410 [10.41]	07	14	0.70 [17.8]
		04		0.510 [12.95]	08	16	0.80 [20.3]
		05		0.610 [15.49]	09	18	0.90 [22.9]
		01		0.110 [2.79]	10	20	1.00 [25.4]
Gold	000715	11		0.125 [3.18]	11	22	1.10 [27.9]
	929715 Straight	10	0.318 [8.08]	0.175 [4.45]	12	24	1.20 [30.5]
		03		0.410 [10.41]	13	26	1.30 [33.0]
		06		0.710 [18.03]	14	28	1.40 [35.6]
	929667	01		0.110 [2.79]	15	30	1.50 [38.1]
	Right Angle	04	0.235 [5.97]	0.145 [3.68]	16	32	1.60 [40.6]
		02		0.405 [10.29]	17	34	1.70 [43.2]
	929745	01	0.318 [8.08]	0.110 [2.79]	18	36	1.80 [45.7]
	Right	02		0.405 [10.29]	19	38	1.90 [48.3]
		01		0.110 [2.79]	20	40	2.00 [50.8]
		09	0.235 [5.97]	0.145 [3.68]	21	42	2.10 [53.3]
	929836	02		0.210 [5.33]	22	44	2.20 [55.9]
	Straight	08		0.310 [7.87]	23	46	2.30 [58.4]
				0.410 [10.41]	24	48	2.40 [61.0]
		04		0.510 [12.95]	25	50	2.50 [63.5]
		05		0.610 [15.49] 0.110 [2.79]	26	52	2.60 [66.0]
Tin		11	0.318 [8.08]	0.125 [3.18]	27	54	2.70 [68.6]
	929710	09		0.145 [3.68]	28	56	2.80 [71.1]
	Straight	10		0.175 [4.45]	29	58	2.90 [73.7]
		03		0.410 [10.41]	30	60	3.00 [76.2]
		06		0.710 [18.03]	31	62	3.10 [78.7]
		01		0.110 [2.79]	32	64	3.20 [81.3]
	929838	04	0.235 [5.97]	0.145 [3.68]	33	66	3.30 [83.8]
	Right Angle	04		0.405 [10.29]	34	68	3.40 [86.4]
		02		0.100 [10.20]	35	70	3.50 [88.9]
					36	72	3.60 [91.4]
ual Ro		No Pin Retentio	9X	<u>Gold</u> 9 <u>XXX</u> - <u>XX</u> -XX	X -XX Gold Plating S	uffix	
	rt Number (select f on Dim A and plati	ng)	ail Length Code	Pin Quantity Pe (see table 4	Location & Thi I = 10 µ" [0.25 (RIA E1 & C1 a er Row EU = 10 µ" [0.1	ckness (see table 1) μm] all over, PBT insula apply) 25 μm] all over, PCT ins	
		·	ee table 3) 9X9XX	Tin X-XX-XX-XX	′ (RIA E1 & C1 a	apply)	
	2 = No Pin I R = Pin Rete 3M Part Number (ention			— — Plating Suffix: blank = 100 μ" [2.54 μ	•	
	based on Dim A ar			 Dia Quantity Dar Daw	insulator (RIA E3 & C2 , RK = 200 μ " [5 μ m] m	2 apply) atte tin. PCT	
	(see table 3)		_ength Code table 3)	(see table 4)	insulator (RIAE1 & C	apply)	TS-0

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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.

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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, as amended by EU Commission Decision 2005/717/EC, as amended by EU Court of Justice Decision 2008/C 116/04

This product contains decaBDE in the insulating material in excess of the maximum concentration allowed for finished products subject to EU RoHS that are placed on the EU market after June 30, 2008.

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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.product 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.

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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 (excluding decaBDE); 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 (excluding decaBDE); 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

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 (excluding decaBDE); 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.)

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