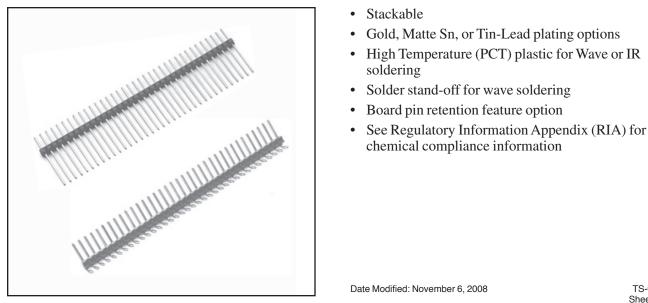
3M[™] Pin Strip Header Single and Dual Row

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

929 Series



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

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

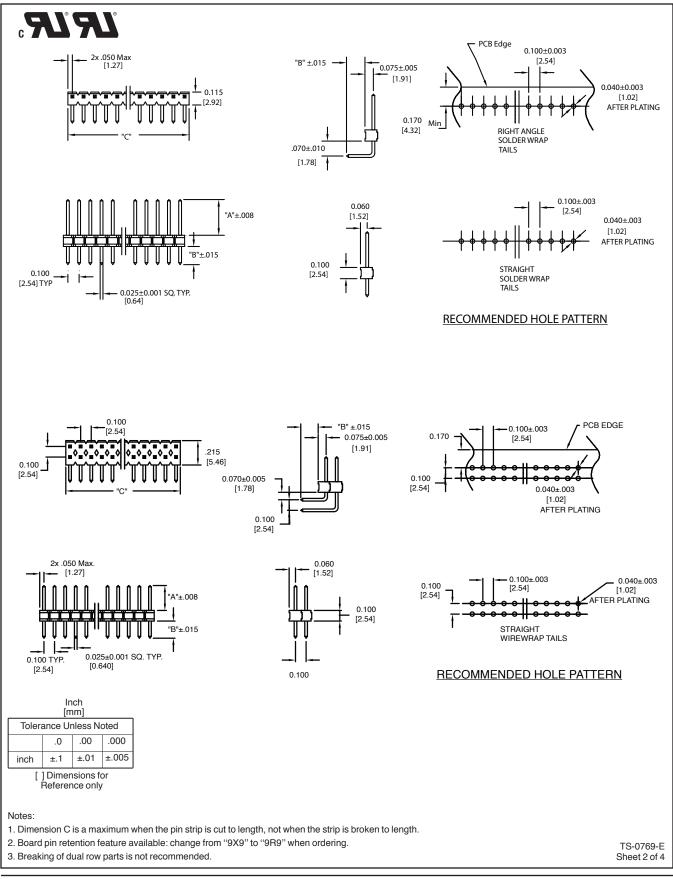
UL File No.: E68080

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

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929 Series



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

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

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Single Row Tail Length Code					Table 2		
		Table	1	Pin Quantity Per Row	Dimension C (see note 1)		
Plating	3M Part	Tail Length	Dim	ensions	01	0.10 [2.5]	
Flating	Number	Code	А	В	02	0.20 [5.1]	
	1	01		0.110 [2.79]	03	0.30 [7.6]	
		09	-	0.145 [3.68]	04	0.40 [10.2]	
		02	4		05	0.50 [12.7]	
	929647	-		0.210 [5.33]	06	0.60 [15.2]	
	Straight	03	0.235 [5.97]	0.410 [10.41]	07	0.70 [17.8]	
		04		0.510 [12.95]	08	0.80 [20.3]	
		05		0.610 [15.49]	09	0.90 [22.9]	
Gold		07		0.910 [23.11]	10	1.00 [25.4]	
	929648		0.005 15 071	0.440 [0.70]	11	1.10 [27.9]	
	Right Angle	01	0.235 [5.97]	0.110 [2.79]	12	1.30 [33.0]	
		01		0.110 [2.79]	13	1.40 [35.6]	
	929705	11]	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	4		17	1.70 [43.2]	
	<u> </u>			0.710 [18.03]	18	1.80 [45.7]	
		01		0.110 [2.79]	19	1.90 [48.3]	
		02		0.210 [5.33]	20	2.00 [50.8]	
	929834	03	0.235 [5.97]	0.410 [10.41]	21	2.10 [53.3]	
	Straight	04		0.510 [12.95]	22	2.20 [55.9]	
		05		0.610 [15.49]	23	2.30 [58.4]	
		07		0.910 [23.11]	24 25	2.40 [61.0] 2.50 [63.5]	
Tin	929835	0/			25	2.60 [66.0]	
	Right Angle	01	0.235 [5.97]	0.110 [2.79]	27	2.70 [68.6]	
		01		0.110 [2.79]	28	2.80 [71.1]	
	929700	11	0.318 [8.08]	0.125 [3.18]	29	2.90 [73.7]	
	Straight				30	3.00 [76.2]	
		06		0.710 [18.03]	31	3.10 [78.7]	
	929730 Right Angle	01	0.318 [8.08]	0.110 [2.79]	32	3.20 [81.3]	
	r light / light			II	33	3.30 [83.8]	
					34	3.40 [86.4]	
					35	3.50 [88.9]	
					36	3.60 [91.4]	
le Rov	v Ordering	Informa	ation	Gold			
	2= No Pin	Retention	9 <u>X</u> 9 <u>X</u> 2	<u> </u>			
	R = Pin Re	tention			Gold Plating Suffix Location & Thickness (se	e table 1)	
	Number (select from	m Table 1 base	ed		l = 10 μ" [0.25 μm] all ove		
on Dim A (see tabl	A and plating)		(RIA E1 & C1 apply) EU = 10 μ" [0.25 μm] all o	(RIA E 1 & C 1 apply) EU = 10 μ " [0.25 μ m] all over, PCT insulator			
(Jee labi			ail Length Code	(see table 2)	(RIA E1 & C1 apply)		
		(S	see table 1)	<u>Tin</u>			
	2 = No Pin	Retention	9 <u>X</u> 9 <u>X</u> 2	<u> XX-XX-XX-X</u>	<u>X</u>		
	R = Pin Re				- Plating Suffix:		
31	A Part Number (sel	ect from Table	1		blank = 100 μ" [2.54 μm]		
	ased on Dim A and p				insulator (RIA E3 & C2 a) RK = 200 μ" [5 μm] matte		
ba	ee table1)		ail Length Code see table 1)	Pin Quantity Per Row (see table 2)	insulator (RIA E1 & C1 a)		

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

929 Series

	Du	al Row Tail L	ength Code		L		Table 4	
	1	Table	-			Pin Quantity Per Row	Pin Quantity Total Dual Row	Dimension ((see note 1)
Plating	3M Part	Tail Length	Din	nensions		01	02	0.10 [2.5]
riaang	Number	Code	А	В		02	04	0.20 [5.1]
	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]
	Straight	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	000745	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]
	000667	01		0.110 [2.79]		15	30	1.50 [38.1]
	929667 Right Angle	04	0.235 [5.97]	0.145 [3.68]		16	32	1.60 [40.6]
	<u> </u>	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	0.010 [0.00]	0.405 [10.29]		19	38	1.90 [43.7]
		01		0.110 [2.79]	⊢	20	40	2.00 [50.8]
		09		0.145 [3.68]		20	40	2.10 [53.3]
	929836	02	0.235 [5.97]	0.210 [5.33]		22	44	2.10 [55.9]
	Straight	08		0.310 [7.87]		23	46	2.30 [58.4]
		03		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]		26	52	2.60 [66.0]
Tin		01	0.318 [8.08]	0.110 [2.79]		27	54	2.70 [68.6]
		11		0.125 [3.18]		28	56	2.80 [71.1]
	929710 Straight	09		0.145 [3.68]		29	58	2.90 [73.7]
	Straight	10 03		0.175 [4.45]		30	60	3.00 [76.2]
		03		0.410 [10.41]		31	62	3.10 [78.7]
				<u> </u>		32	64	3.20 [81.3]
	929838	01	0.005 (5.07)	0.110 [2.79]		33	66	3.30 [83.8]
	Right Angle	04	0.235 [5.97]	0.145 [3.68]		34	68	3.40 [86.4]
		02		0.405 [10.29]		35	70	3.50 [88.9]
						36	72	3.60 [91.4]
ual Ro	w Orderir	ng Inform		Gold				
	2 =	No Pin Retentio	ຸ 9 Xຸ	9 <u>XXX</u> - <u>XX</u> - <u>XX</u>				
		Pin Retention	-			Cold Plating Suf		
3M Par	rt Number (select f	rom Table 3					ness (see table 1) n] all over, PBT insula	ator
	on Dim A and plati			Pin Quantity Pe		RIAE1 & C1 ap	ply)	
(see ta	ble 3)		ail Length Code	(see table 4)) [EU = 10 μ" [0.25 RIA E1 & C1 ap	μm] all over, PCT ins	ulator
		(S	ee table 3)	Tin	(anter a or ap	ניא)	
			92922	(X- XX -XX-X)	x			
	2 = No Pin				_			
	R = Pin Ret				- Plating S		tin load DDT	
	3M Part Number (based on Dim A ar		e 3			100 μ" [2.54 μm (RIA E3 & C2 a		
	(see table 3)	,		Pin Quantity Per Row	RK = 200) μ" [5 μm] matt	e tin, PCT	
			ength Code	(see table 4)	insulator	(RIA E1 & C1 a	ipply)	TS-0
		1000	table 3)	,				

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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, 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.

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.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.

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 (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.

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)	
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.)

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 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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