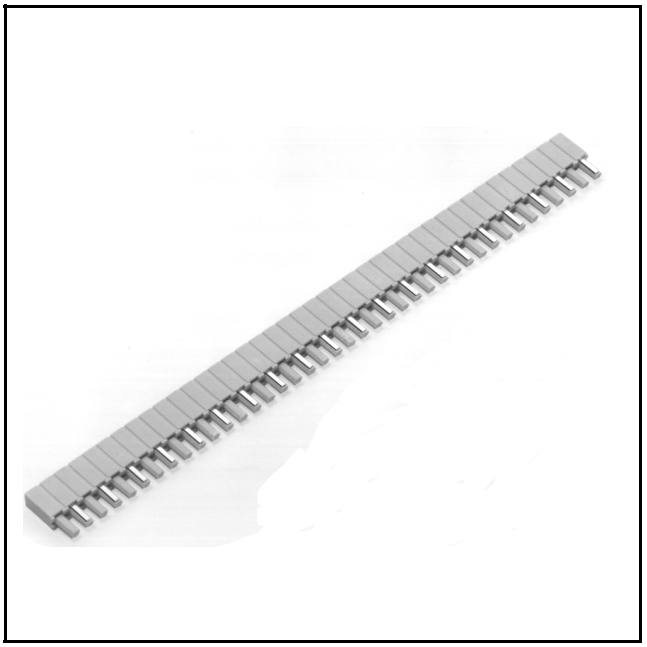
3M™ Thru-Board Socket

.100″ and .100″ × .100″ Straight, Solder Tails 929 Series



- 3-40 contacts on one row, 4-80 on two row
- Single hole board preparation simplifies board layout
- No solder mask preparation speeds manufacturing assembly
- Top mounting allows single pass for wave soldering
- See Regulatory Information Index (RIA) for chemical compliance information

Date Modified: March 15, 2007

Physical

Insulation	Glass Filled Polyester (PET)
Material:	
Flammability:	UL 94V-0
Color:	Gray
Contact	
Material:	Copper Alloy
Plating	
Underplating:	100 μ″ [2.54 μm] Nickel
Wiping Area:	See ordering information options for thickness
Solder Tails:	100 μ″ [2.54 μm] tin lead or 200 μ" [5.08μm] matte tin
Marking:	None

Electrical

Current Rating:	2 A
Insulation Resistance:	$> 1 \times 10^9 \Omega$ at 500 V_{DC}
Withstanding Voltage:	1000 V_{RMS} at Sea Level

Environmental

Temperature Rating:	-55°C to +105°C
Process Rating:	260°C, (profile per J-STD-020C)
Moisture Sensitivity Level:	1 (per J-STD-020C)

UL File No.: E68080

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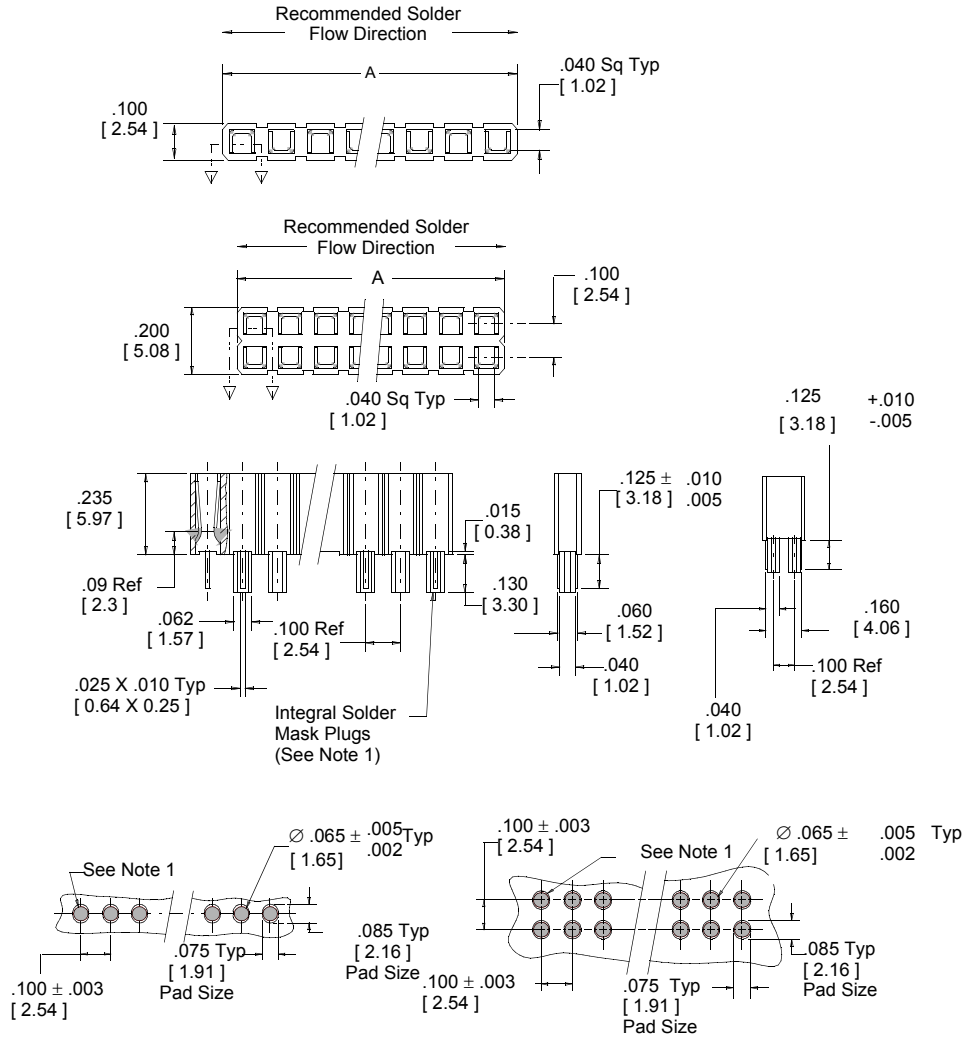
Inch
[mm]

Tolerance Unless Noted			
	.0	.00	.000
inch	±.1	±.01	±.005

[ ] Dimensions for Reference Only



Recommended Mounting Hole Pattern

Contact Quantity		Dimension A +0.00 [+0.00] -.025 [-.064]
1 Row	2 Row	
	04	0.20 [5.08]
03	06	0.30 [7.62]
04	08	0.40 [10.16]
05	10	0.50 [12.70]
06	12	0.60 [15.24]
07	14	0.70 [17.78]
08	16	0.80 [20.32]
09	18	0.90 [22.86]
10	20	1.00 [25.40]
11	22	1.10 [27.94]
12	24	1.20 [30.48]
13	26	1.30 [33.02]
14	28	1.40 [35.56]
15	30	1.50 [38.10]
16	32	1.60 [40.64]
17	34	1.70 [43.18]
18	36	1.80 [45.72]
19	38	1.90 [48.26]
20	40	2.00 [50.80]
21	42	2.10 [53.34]
22	44	2.20 [55.88]
23	46	2.30 [58.42]
24	48	2.40 [60.96]
25	50	2.50 [63.50]
26	52	2.60 [66.04]
27	54	2.70 [68.58]
28	56	2.80 [71.12]
29	58	2.90 [73.66]
30	60	3.00 [76.20]
31	62	3.10 [78.74]
32	64	3.20 [81.28]
33	66	3.30 [83.82]
34	68	3.40 [86.36]
35	70	3.50 [88.90]
36	72	3.60 [91.44]
37	74	3.70 [93.98]
38	76	3.80 [96.52]
39	78	3.90 [99.06]
40	80	4.00 [101.60]

Notes:

1. It is recommended that the plated thru-hole on the ends be .062″ [1.57] to .063″ [1.60]. This will prevent the connector from floating during the wave soldering process.
2. Integral solder mask plugs are removed after soldering by using the 3M™ Hand Tool 929013 with the 3M™ Molded Head 929025-0X-XX or 3M™ Hand Tool 929012 with the 3M™ Press 929050.
3. Do not hand solder this connector because the solder heat and volume of solder cannot be adequately controlled. This would make the integral plugs difficult or impossible to remove.
4. The connector should be flow soldered such that it enters the solder wave, end first (width).

Ordering Information

929XXX-01-XX-XX

Plating Options:
1 Row
841 = Gold
2 Row
842 = Gold

Contact Quantity: (per row) see table

Gold Plating Thickness:
10 = Wiping Area 10 µ" [0.25 µm] gold with tin-lead tails (RIA E3 & C2 apply)
30 = Wiping Area 30 µ" [0.76 µm] gold with tin-lead tails (RIA E3 & C2 apply)
RA = 10 µ" [0.25 µm] gold wiping area with matte tin tails (RIA E1 & C1 apply)
RB = 30 µ" [0.76 µm] gold wiping area with matte tin tails (RIA E1 & C1 apply)

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

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For technical, sales or ordering information call
800-225-5373

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 2005/17/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.

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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; 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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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 (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)	×	○	○	○	○	○

○：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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