

3M™ Boardmount Socket

.100" and .100" × .100" Straight, Solder Tails

929 Series



- 1-40 contacts on single row, 2-80 contacts on two row
- Tuning fork contact design
- Solder standoffs facilitate production wave soldering
- Optional board retention feature
- See Regulatory Information Index (RIA) for chemical compliance information

Date Modified: May 1, 2009

TS-0815-D
Sheet 1 of 2

Physical

Insulator:

Material: Glass Filled Polyester (PBT) or High Temperature Nylon

Flammability: UL 94V-0

Color: Black

Contact Material: Copper Alloy

Plating:

Underplating: 100 μ" [2.54 μm] Nickel

Wiping Area: See ordering information options for thickness

Solder Tails: Tin Lead or Matte Tin (See ordering information)

Marking: None

Electrical

Current Rating: 2 amps maximum all lines energized at 65°C maximum ambient

Insulation Resistance: $> 5 \times 10^9 \Omega$ at 500 V_{DC}

Withstanding Voltage: 1,500 V_{RMS} at Sea Level

Environmental

Temperature Rating: -40°C to +105°C

Process Rating: 260°C (per J-STD-020C)
(PBT Insulator version), Maximum molded insulator temperature 191°C
(Solder Wave Process Only)

UL File No.: E68080

3M

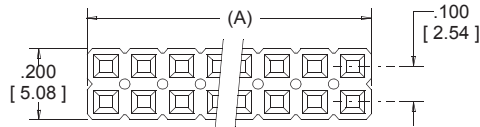
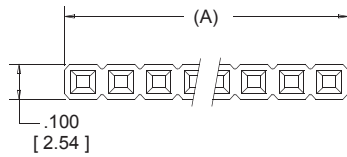
Electronic Solutions Division
Interconnect Solutions
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929 Series



Section A-A



Recommended Mounting Hole Patterns
(Shown for Mounting Side of Board)

| Contact Quantity Code | Contact Quantity 1 Row | Contact Quantity 2 Row | Dimension A (Reference Only) |
|-----------------------|------------------------|------------------------|------------------------------|
| 02 | 02 | 04 | 0.20 [5.08] |
| 03 | 03 | 06 | 0.30 [7.62] |
| 04 | 04 | 08 | 0.40 [10.16] |
| 05 | 05 | 10 | 0.50 [12.70] |
| 06 | 06 | 12 | 0.60 [15.24] |
| 07 | 07 | 14 | 0.70 [17.78] |
| 08 | 08 | 16 | 0.80 [20.32] |
| 09 | 09 | 18 | 0.90 [22.86] |
| 10 | 10 | 20 | 1.00 [25.40] |
| 11 | 11 | 22 | 1.10 [27.94] |
| 12 | 12 | 24 | 1.20 [30.48] |
| 13 | 13 | 26 | 1.30 [33.02] |
| 14 | 14 | 28 | 1.40 [35.56] |
| 15 | 15 | 30 | 1.50 [38.10] |
| 16 | 16 | 32 | 1.60 [40.64] |
| 17 | 17 | 34 | 1.70 [43.18] |
| 18 | 18 | 36 | 1.80 [45.72] |
| 19 | 19 | 38 | 1.90 [48.26] |
| 20 | 20 | 40 | 2.00 [50.80] |
| 21 | 21 | 42 | 2.10 [53.34] |
| 22 | 22 | 44 | 2.20 [55.88] |
| 23 | 23 | 46 | 2.30 [58.42] |
| 24 | 24 | 48 | 2.40 [60.96] |
| 25 | 25 | 50 | 2.50 [63.50] |
| 26 | 26 | 52 | 2.60 [66.04] |
| 27 | 27 | 54 | 2.70 [68.58] |
| 28 | 28 | 56 | 2.80 [71.12] |
| 29 | 29 | 58 | 2.90 [73.66] |
| 30 | 30 | 60 | 3.00 [76.20] |
| 31 | 31 | 62 | 3.10 [78.74] |
| 32 | 32 | 64 | 3.20 [81.28] |
| 33 | 33 | 66 | 3.30 [83.82] |
| 34 | 34 | 68 | 3.40 [86.36] |
| 35 | 35 | 70 | 3.50 [88.90] |
| 36 | 36 | 72 | 3.60 [91.44] |
| 40 | N/A | 80 | 4.00 [101.60] |

Inch
[mm]

| Tolerance Unless Noted | | | |
|------------------------|-----|------|-------|
| | .0 | .00 | .000 |
| Inch | ±.1 | ±.01 | ±.005 |

[] Dimensions for Reference Only

Notes:

1. Maximum recommended mating header pin length is .25 [6.4].
2. Recommended to be mated to the .100 [2.54] × .100 [2.54] pin strip headers: 929 series and 2300 series.

Ordering Information

9X9XXX-01-XX-XX

2 = Standard Product
(no board retention feature)
3 = With board retention feature

1 Row Plating Options:
850 = Gold
974 = Tin
2 Row Plating Options: *
852 = Gold
975 = Tin

Plating Suffix:
blank = tin-lead (RIA E3 & C2 apply)
RK = matte tin overall H.T. Nylon Insulator (RIA E1 & C1 apply)
10 = 10 μ" [0.25 μm] gold with tin-lead tails (RIA E3 & C2 apply)
30 = 30 μ" [0.76 μm] gold with tin-lead tails (RIA E3 & C2 apply)
RA = 10 μ" [0.25 μm] gold with matte tin tails (RIA E1 & C1 apply)
RB = 30 μ" [0.76 μm] gold with matte tin tails (RIA E1 & C1 apply)

Contact Quantity Code:
(see table)

TS-0815-D
Sheet 2 of 2



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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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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.

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 (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.) | | | | | | |

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 (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) |
| 合金(Metal alloy) | × | ○ | ○ | ○ | ○ | ○ |
| | | | | | | |

○: 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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