

# 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 the Regulatory Information Appendix (RIA) in the RoHS compliance section of [www.3mconnectors.com](http://www.3mconnectors.com) for compliance information (RIA E1 & C1 apply)

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## Physical

### Insulator:

Material: Glass Filled Polyester (PCT)

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

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## Electrical

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

**Insulation Resistance:**  $> 5 \times 10^9 \Omega$  at 500 V<sub>DC</sub>

**Withstanding Voltage:** 1,500 V<sub>RMS</sub> at Sea Level

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## 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

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**3M**

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**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)

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