

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 for compliance information (RIA E1 & C1 apply)

Date Modified: June 27, 2013

TS-0815-E
Sheet 1 of 2

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

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
<http://www.3Mconnectors.com>

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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)

TS-0815-E
Sheet 2 of 2



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