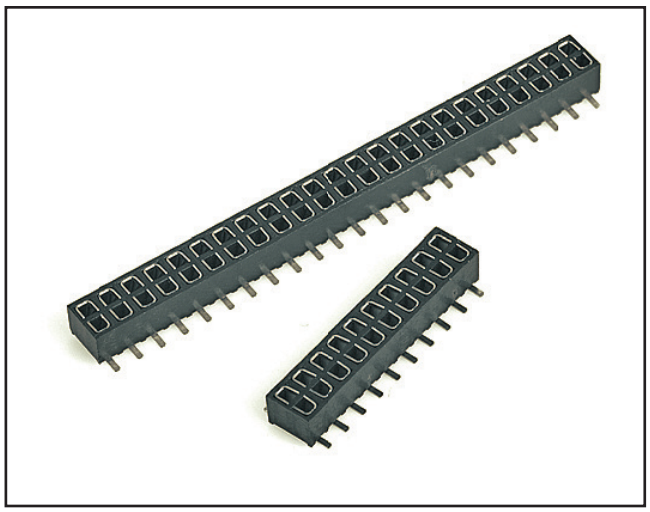
# 3M™ Thru-Board Socket

2 mm x 2 mm Surface Mount

1532 Series



- Top and bottom side mateable
- High Temperature Insulator
- Reflow solder compatible
- Low height helps minimize PCB stack height
- End stackable
- Available in tape and reel pack with vacuum cap for automated placement applications
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: January 14, 2013



## Physical

| | |
|---|---|
| **Insulator:** | |
| Material: | Glass filled LCP |
| Flammability: | UL 94V-0 |
| Color: | Black |
| **Contact:** | |
| Material: | Copper alloy |
| **Plating:** | |
| Underplating: | 1.27-3.81 µm [ 50-150 µ" ] Nickel overall |
| Wiping Area: | 0.76 µm [ 30 µ" ] Gold Avg. |
| Solder Tails: | 200-300 µ" [5.08-7.62 µm] Matte Tin |
| **Marking:** | Orientation delta |

## Electrical

| | |
|---|---|
| **Current Rating:** | 3.50 A, 1 Line Powered<br>1.75 A, 6 Adjacent Lines Powered<br>1.00 A, All Lines Powered<br>Rating Conditions: EIA-364-070 Method 2, 30°C maximum temperature rise, 20% derated. Reference appropriate 3M Product Specification for detailed current derating curves. |
| **Insulation Resistance:** | $> 1 \times 10^9 \Omega$ at 250 $V_{DC}$ |
| **Withstanding Voltage:** | 500 $V_{DC}$ at Sea Level |

## Environmental

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

UL File No.: E68080

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Electronic Solutions Division
Interconnect Solutions
http://www.3Mconnectors.com

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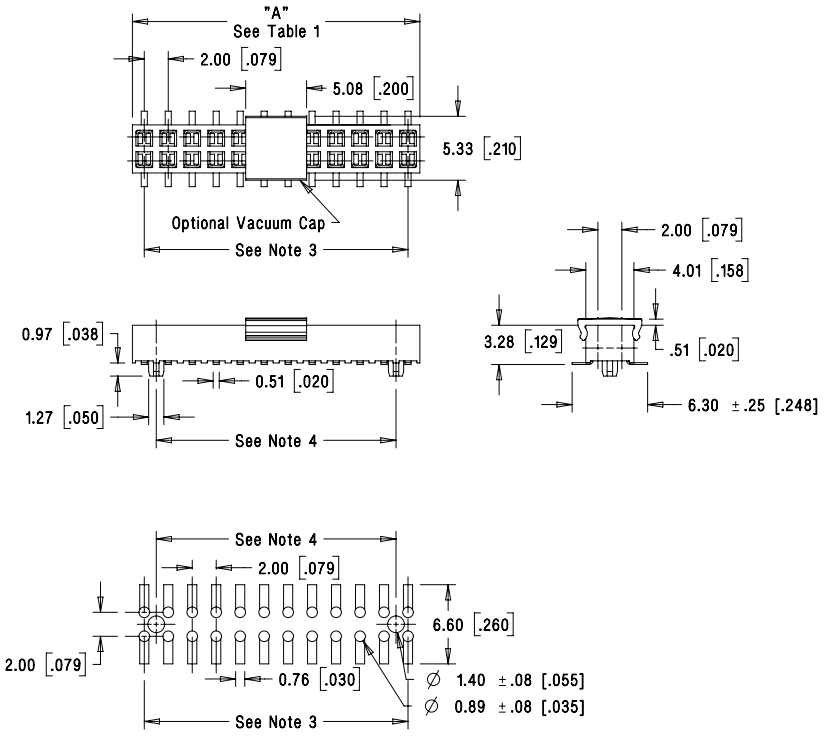
2 mm x 2 mm Surface Mount

1532 Series

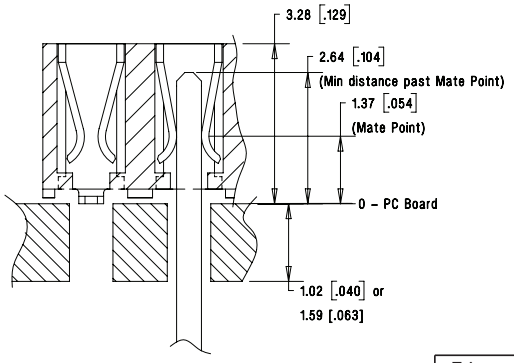
| Table 1 | | | |
|---|---|---|---|
| Contact Quantity | Dimension A | Tape Width | Order Code |
| 04 | 3.96 [0.156] | 24 mm | WA |
| 06 | 5.87 [0.231] | 24 mm | WA |
| 08 | 7.87 [0.310] | 24 mm | WB |
| 10 | 9.88 [0.389] | 24 mm | WB |
| 12 | 11.86 [0.467] | 24 mm | WB |
| 14 | 13.87 [0.546] | 24 mm | WB |
| 16 | 15.88 [0.625] | 24 mm | WB |
| 18 | 17.88 [0.704] | 44 mm | WD |
| 20 | 19.86 [0.782] | 44 mm | WD |
| 22 | 21.87 [0.861] | 44 mm | WD |
| 24 | 23.88 [0.940] | 44 mm | WD |
| 26 | 25.88 [1.019] | 44 mm | WD |
| 28 | 27.86 [1.097] | 44 mm | WD |
| 30 | 29.87 [1.176] | 44 mm | WD |
| 32 | 31.88 [1.255] | 56 mm | WE |
| 34 | 33.88 [1.334] | 56 mm | WE |
| 36 | 35.86 [1.412] | 56 mm | WE |
| 38 | 37.87 [1.491] | 56 mm | WE |
| 40 | 39.88 [1.570] | 56 mm | WE |
| 42 | 41.88 [1.649] | 56 mm | WE |
| 44 | 43.87 [1.727] | 72 mm | WF |
| 46 | 45.87 [1.806] | 72 mm | WF |
| 48 | 47.88 [1.885] | 72 mm | WF |
| 50 | 49.89 [1.964] | 72 mm | WF |
| 52 | 51.87 [2.042] | 72 mm | WF |
| 54 | 53.87 [2.121] | 72 mm | WF |
| 56 | 55.88 [2.200] | 72 mm | WF |
| 58 | 57.86 [2.278] | 88 mm | WG |
| 60 | 59.87 [2.357] | 88 mm | WG |







**Recommended Solder Pad Layout**




Notes:

1. Tape & reel include vacuum pick-up cap for pick 'n place handling equipment.
2. Parts in tray packaging are supplied without vacuum cap.
3. Positions per row, subtract 1, multiply by 2 mm spacing.
4. Optional locator posts: positions per row, multiply by 2 mm, subtract 4 mm.

mm
[Inch]

| Tolerance Unless Noted | | | |
|---|---|---|---|
| | .0 | .00 | .000 |
| mm | ± 2.54 | ± .254 | ± .127 |

[ ] Dimensions for Reference only

**Optional Locator Posts available for positions eight and greater.

## Ordering Information

**1532XX-20X0-RB-XX (RIA E1 & C1 Apply)**

- XX (first): Number of positions (See Table 1)
- X: Board location post
  - 0 = None
  - **2 = With board location post**
- XX (last): Packaging style:
  - Blank = tray packaging
  - WX = tape & reel pkg (see table)



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RIA-2217B-E

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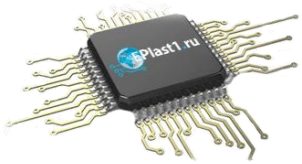


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