

# 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](http://www.3Mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: January 14, 2013

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## Physical

### Insulator:

Material: Glass filled LCP  
Flammability: UL 94V-0  
Color: Black

### Contact:

Material: Copper alloy

### Plating:

Underplating: 1.27-3.81  $\mu\text{m}$  [ 50-150  $\mu\text{''}$  ] Nickel overall  
Wiping Area: 0.76  $\mu\text{m}$  [ 30  $\mu\text{''}$  ] Gold Avg.  
Solder Tails: 200-300  $\mu\text{''}$  [5.08-7.62  $\mu\text{m}$ ] Matte Tin

**Marking:** Orientation delta

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## Electrical

**Current Rating:** 3.50 A, 1 Line Powered  
1.75 A, 6 Adjacent Lines Powered  
1.00 A, All Lines Powered  
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<sub>DC</sub>

**Withstanding Voltage:** 500 V<sub>DC</sub> at Sea Level

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## 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

**3M**

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

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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



mm [Inch]		
Tolerance Unless Noted		
	.0	.00
mm	± 2.54	± .254 ± .127

[ ] Dimensions for Reference only

### 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.

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

## Ordering Information

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

Number of positions (See Table 1)

Board location post  
0 = None  
2 = With board location post

Packaging style:  
Blank = tray packaging  
WX = tape & reel pkg (see table)

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