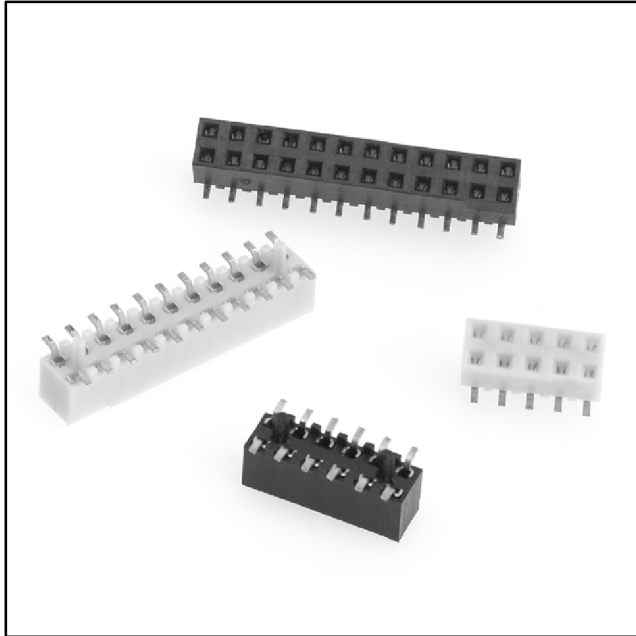


# 3M™ Pak 20 Boardmount Socket

2 mm x 2 mm Surface Mount

1502 Series



- High temperature dielectric
- IR and vapor solder compatible
- Surface mount
- Industry standard compatible
- Minimizes PC board stacking heights
- End stackable feature

Date Modified: May 30, 2003

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Sheet 1 of 2

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## Physical

**Insulation**  
Material: Glass Filled PCT  
Flammability: UL 94V-0  
Color: Black

**Contact**  
Material: Copper Alloy

**Plating**  
Underplating: 50-150  $\mu$ " [ 1.27-3.81  $\mu$ m ] Nickel — QQ-N-290, Class 2  
Wiping Area: Gold — MIL-G-45204, Type II, Grade C  
Solder Tails: 100-300  $\mu$ " [ 2.54-7.62  $\mu$ m ] 90/10 Tin Lead — MIL-P-81728

**Marking:** Orientation delta and 3M logo

**Note:** The location and thickness of the contact plating is determined by the part number. Refer to ordering information.

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## Electrical

**Current Rating:** 1.5 A  
**Insulation Resistance:**  $> 5 \times 10^9 \Omega$  at 250 Vdc  
**Withstanding Voltage:** 500 Vdc at Sea Level

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## Environmental

**Temperature Rating:** -55°C to +105°C

UL File No.: E68080

**3M**  
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<http://www.3M.com/interconnects/>

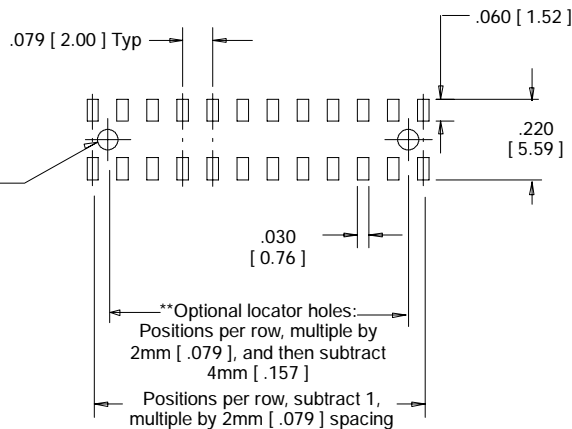
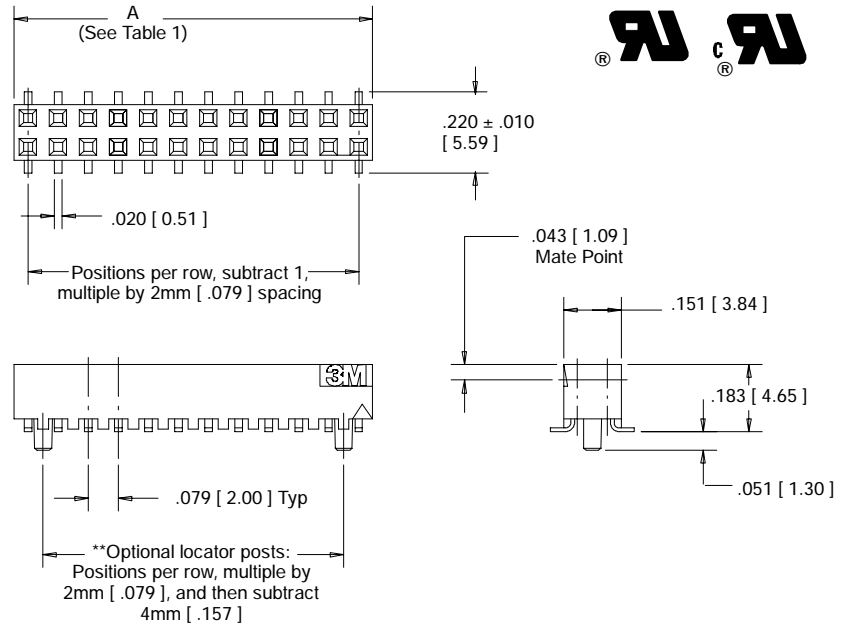
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**800-225-5373**

# 3M™ Pak 20 Boardmount Socket

## 2 mm x 2 mm Surface Mount

1502 Series

Contact Quantity	Dimension A
04	0.156 [ 4.00 ]
06	0.231 [ 6.00 ]
08	0.310 [ 8.00 ]
10	0.389 [ 10.00 ]
12	0.467 [ 12.00 ]
14	0.546 [ 14.00 ]
16	0.625 [ 16.00 ]
18	0.704 [ 18.00 ]
20	0.782 [ 20.00 ]
22	0.861 [ 22.00 ]
24	0.940 [ 24.00 ]
26	1.019 [ 26.00 ]
28	1.097 [ 28.00 ]
30	1.176 [ 30.00 ]
32	1.255 [ 32.00 ]
34	1.334 [ 34.00 ]
36	1.412 [ 36.00 ]
38	1.491 [ 38.00 ]
40	1.570 [ 40.00 ]
42	1.649 [ 42.00 ]
44	1.727 [ 44.00 ]
46	1.806 [ 46.00 ]
48	1.885 [ 48.00 ]
50	1.964 [ 50.00 ]
52	2.042 [ 52.00 ]
54	2.121 [ 54.00 ]
56	2.200 [ 56.00 ]
58	2.278 [ 58.00 ]
60	2.357 [ 60.00 ]



Inch [mm]			
Tolerance Unless Noted			
	.0	.00	.000
Inch	± .1	± .01	± .005

[ ] Dimensions for Reference only

### Recommended Mounting Hole Pattern

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

## Ordering Information

### X1502XX-20X0XX

Packaging  
 V = Bulk  
 W = Tape & Reel (See TS-0607)  
 Blank = Standard

Number of Positions  
 (See Table 1)  
 (Even No.: 4 - 60)

Board Location Post  
 0 = None  
 2 = With BoardLocation Post

Plating  
 TB = 30 μm [ 0.76. μm ] Gold  
 TH = 15 μm [ 0.38. μm ] Gold

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 Sheet 2 of 2

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### **Electronic and Interconnect Solutions Division**

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