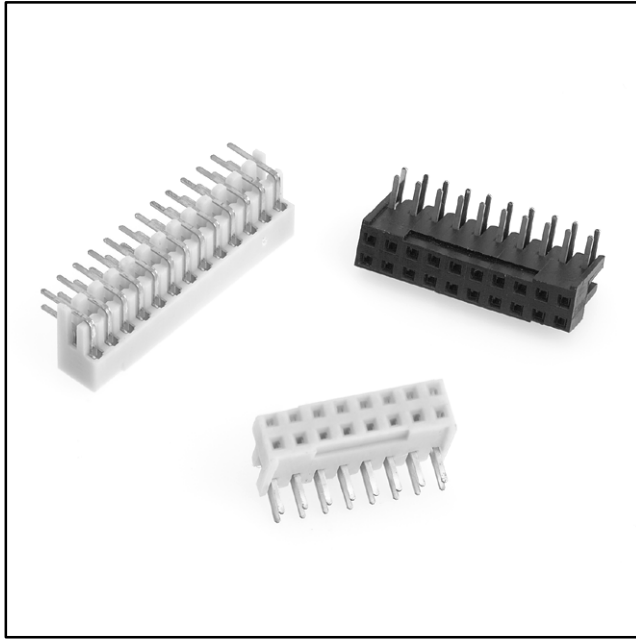


# 3M™ Pak 20 Boardmount Socket

2 mm × 2 mm Right Angle, Solder Tails

1502 Series



- High temperature dielectric
- IR, vapor and wave solder compatible
- Minimizes PC board space
- Mates with 2.5" hard drives for direct connect applications
- Mates with pin headers for board stacking applications
- End stackable feature

Date Modified: May 19, 2004

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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

Underplate: 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

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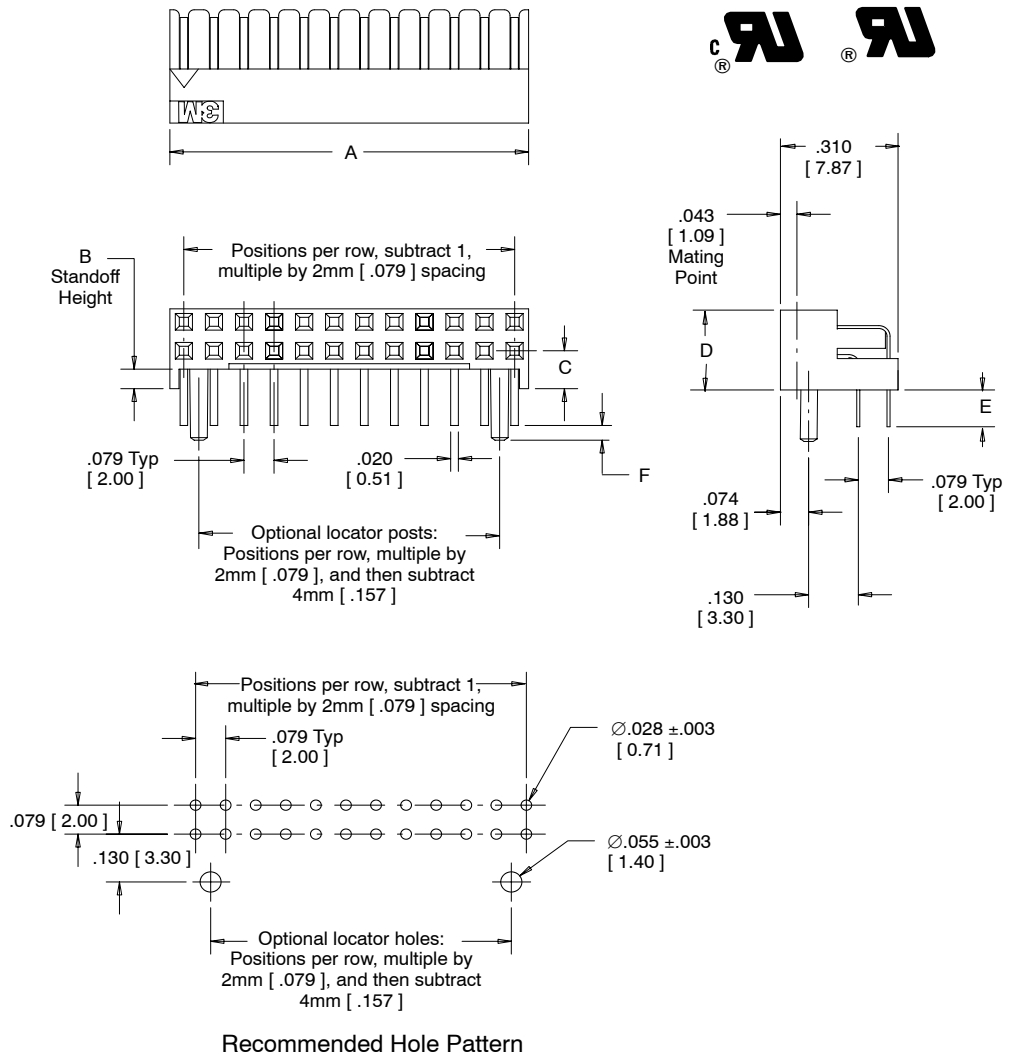
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# 3M™ Pak 20 Boardmount Socket

## 2 mm × 2 mm Right Angle, Solder Tails

1502 Series

Contact Quantity	Dimension A
8	0.315 [ 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 ]



Recommended Hole Pattern

Standoff Height Code	Dimensions				
	B	C	D	E	F
0	.015 [0.38]	.065 [1.65]	.179 [4.55]	.100 [2.54]	.040 [1.02]
1	.053 [1.35]	.103 [2.62]	.217 [5.51]	.100 [2.54]	.040 [1.02]
2	.028 [0.71]	.078 [1.98]	.192 [4.88]	.125 [3.18]	.035 [0.89]

	.0	.00	.000
Inch	±.1	±.01	±.005

[ ] Dimensions for Reference only

### Ordering Information

**X1502XX-5XX2XX**

Packaging  
V = Bulk  
Blank = Standard

Number of Positions  
(See Table 1)  
(Even No.: 10-60)

Board Location Post  
0 = None  
2 = With Board Location Post

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

Standoff Height Code  
(See Table 2, Dim B)  
0 = .015" (Standard)  
1 = .053"  
2 = .028" (Position 40, 44, and 50 only)

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Sheet 2 of 2

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