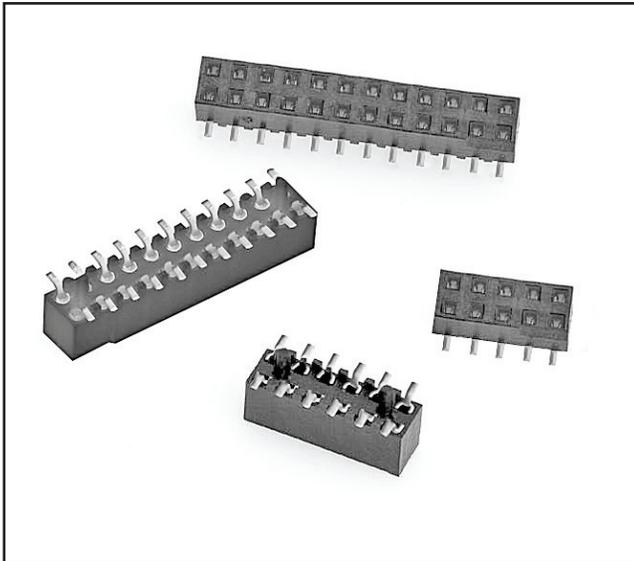


3M™ Boardmount Socket

2 mm x 2 mm Str. Surface Mount, Str. and R. A. Plated Through-Hole

1502 Series



- High temperature dielectric
- Reflow solder compatible
- Surface mount and through hole mounting styles
- Industry standard compatible
- Minimizes PC board stacking heights
- End stackable feature
- Side stackable feature on PTH versions
- SMT Sockets are available in tape and reel with vacuum cap for automatic placement.
- 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 22, 2008

TS-0519-F
Sheet 1 of 4

Physical

Insulator:

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

Contact:

Material: Copper Alloy

Plating:

Underplating: 50-150 μ ” [1.27-3.81 μ m] Nickel overall
Wiping Area: 30 μ ” [0.76 μ m] Gold
Solder Tails: 200 μ ” [5.1 μ m] Matte Tin or Tin Lead (refer to ordering information)

Marking: Orientation delta and 3M Logo

Electrical

Current Rating: 1 A

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

3M™ Boardmount Socket

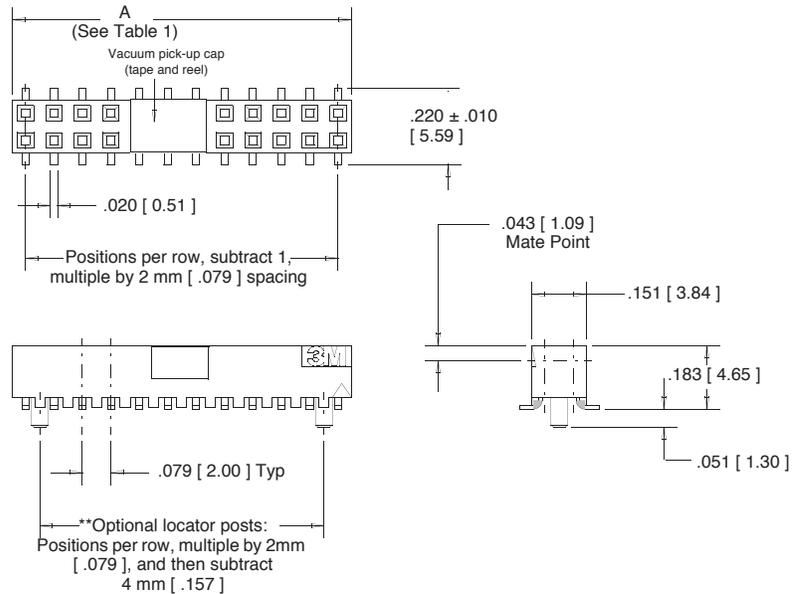
2 mm x 2 mm Str. Surface Mount, Str. and R. A. Plated Through-Hole

1502 Series



Table 1

Contact Quantity	Dimension A	Tape Width	Order Code
4	0.156 [3.96]	n/a	n/a
6	0.231 [5.87]	n/a	n/a
8	0.310 [7.87]	24 mm	WB
10	0.389 [9.88]	24 mm	WB
12	0.467 [11.86]	24 mm	WB
14	0.546 [13.87]	24 mm	WB
16	0.625 [15.88]	24 mm	WB
18	0.704 [17.88]	44 mm	WD
20	0.782 [19.86]	44 mm	WD
22	0.861 [21.87]	44 mm	WD
24	0.940 [23.88]	44 mm	WD
26	1.019 [25.88]	44 mm	WD
28	1.097 [27.86]	44 mm	WD
30	1.176 [29.87]	44 mm	WD
32	1.255 [31.88]	56 mm	WE
34	1.334 [33.88]	56 mm	WE
36	1.412 [35.86]	56 mm	WE
38	1.491 [37.87]	56 mm	WE
40	1.570 [39.88]	56 mm	WE
42	1.649 [41.88]	56 mm	WE
44	1.727 [43.87]	72 mm	WF
46	1.806 [45.87]	72 mm	WF
48	1.885 [47.88]	72 mm	WF
50	1.964 [49.89]	72 mm	WF
52	2.042 [51.87]	72 mm	WF
54	2.121 [53.87]	72 mm	WF
56	2.200 [55.88]	72 mm	WF
58	2.278 [57.86]	88 mm	WG
60	2.357 [59.87]	88 mm	WG

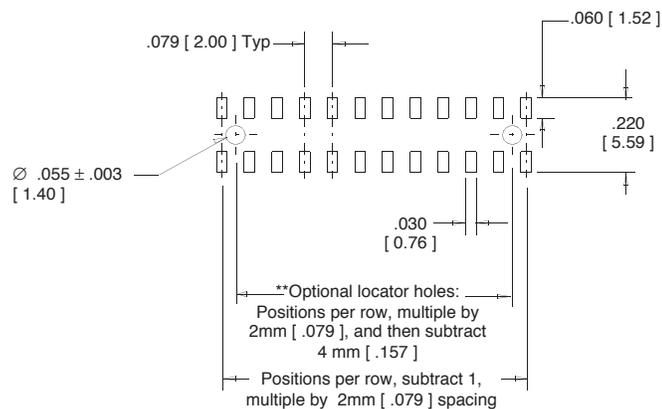


Notes:

1. Tape & reel include vacuum pick-up cap for pick 'n place handling equipment.
2. Parts in tray packaging are supplied without vacuum cap.

Inch [mm]		
Tolerance Unless Noted		
	.0	.000
	.00	.000
Inch	$\pm .1$	$\pm .01$ $\pm .005$

[] Dimensions for Reference only



Recommended Mounting Hole Pattern

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

Ordering Information

1502XX-20X0-XX-XX

Number of Positions
(see table 1)
(Even No.: 4 - 60)

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

Plating suffix:
RB = $30 \mu\text{m}$ [.76 μm] Gold with Matte Tin solder tails (RIA E1 & C1 apply)
TB = $30 \mu\text{m}$ [.76 μm] Gold with Tin-lead solder tails (RIA E3 & C2 apply)

Packaging style:
Blank = tray packaging
WX = tape & reel pkg (see Table 1 for ordering code)

TS-0519-F
Sheet 2 of 4

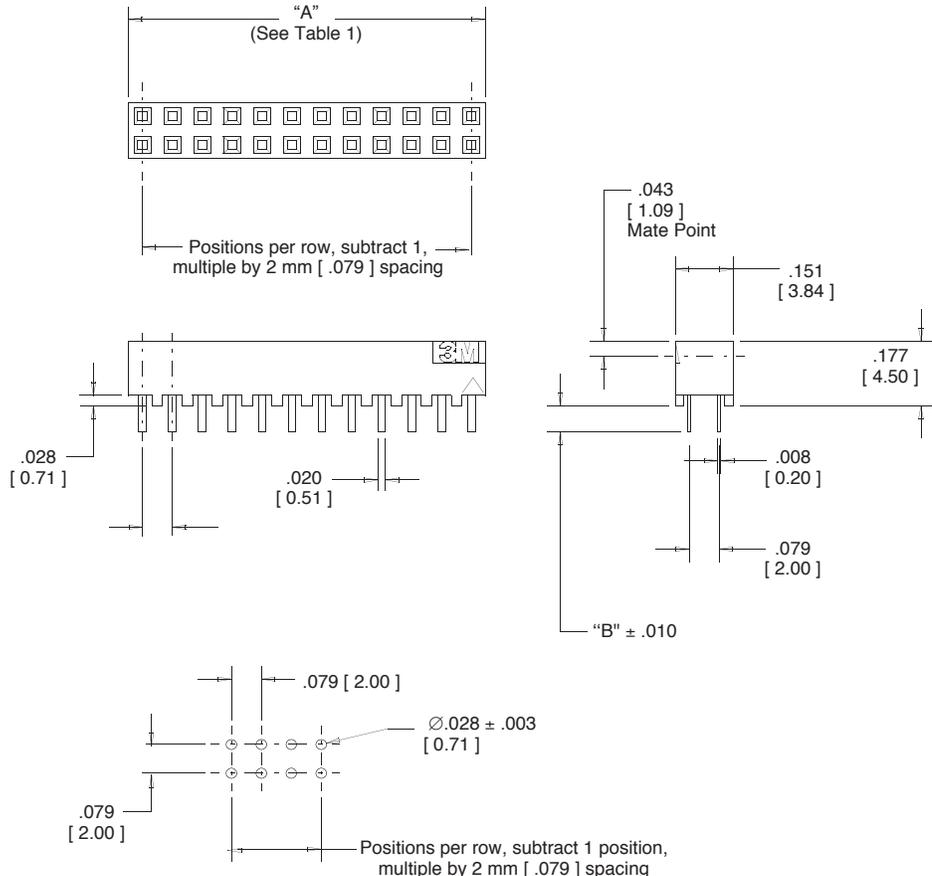
3M™ Boardmount Socket

2 mm x 2 mm Str. Surface Mount, Str. and R. A. Plated Through-Hole

1502 Series



Contact Quantity	Dimension A
04	0.156 [3.96]
06	0.231 [5.87]
08	0.310 [7.87]
10	0.389 [9.88]
12	0.467 [11.86]
14	0.546 [13.87]
16	0.625 [15.88]
18	0.704 [17.88]
20	0.782 [19.86]
22	0.861 [21.87]
24	0.940 [23.88]
26	1.019 [25.88]
28	1.097 [27.86]
30	1.176 [29.87]
32	1.255 [31.88]
34	1.334 [33.88]
36	1.412 [35.86]
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42	1.649 [41.88]
44	1.727 [43.87]
46	1.806 [45.87]
48	1.885 [47.88]
50	1.964 [49.89]
52	2.042 [51.87]
54	2.121 [53.87]
56	2.200 [55.88]
58	2.278 [57.86]
60	2.357 [59.87]



Recommended Hole Pattern

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

[] Dimensions for Reference only

Ordering Information

1502XX-600X-XX

Number of Positions
(see table 1)
(Even No.: 4 - 60)

Solder Tail Length
Dimension B
1 = .055" (1.4 mm)
2 = .100" (2.54 mm)

Plating suffix:
RB = 30 μm [7.6 μm] Gold with Matte Tin solder tails (RIA E1 & C1 apply)
TB = 30 μm [7.6 μm] Gold with Tin-lead solder tails (RIA E3 & C2 apply)

TS-0519-F
Sheet 3 of 4

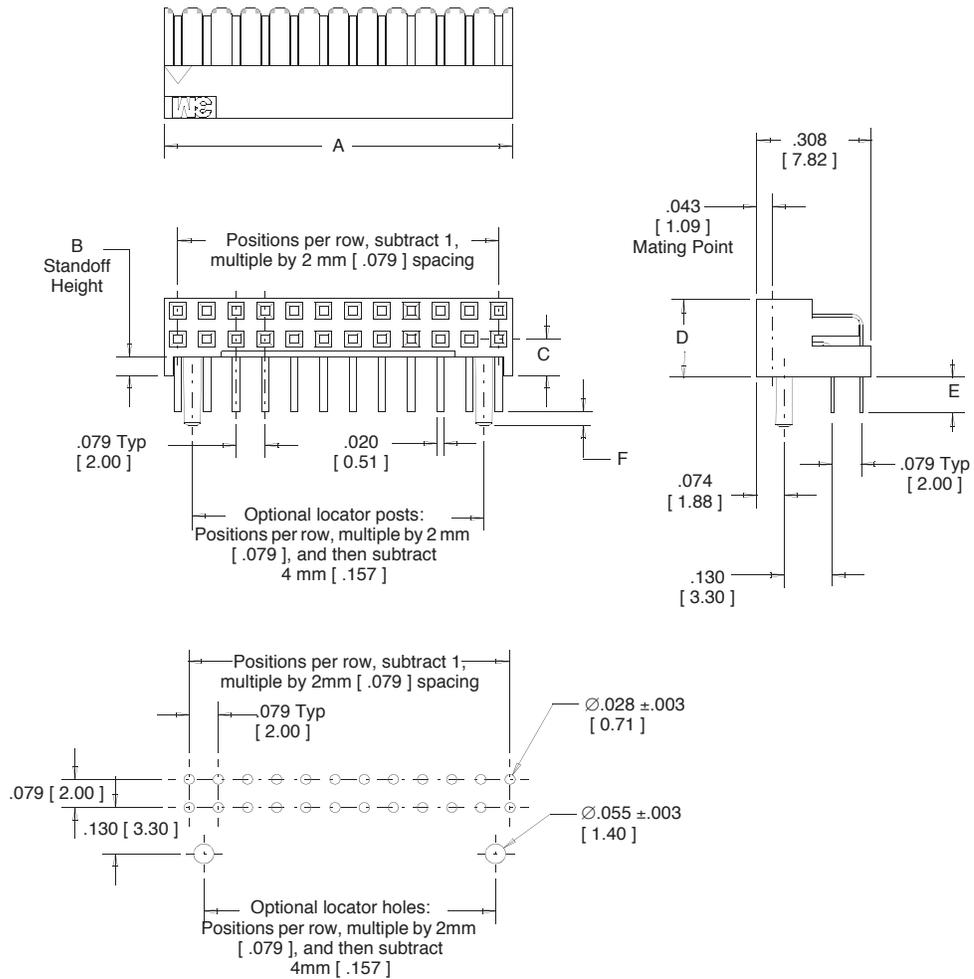
3M™ Boardmount Socket

2 mm x 2 mm Str. Surface Mount, Str. and R. A. Plated Through-Hole

1502 Series



Contact Quantity	Dimension A
08	0.310 [7.87]
10	0.389 [9.88]
12	0.467 [11.86]
14	0.546 [13.87]
16	0.625 [15.88]
18	0.704 [17.88]
20	0.782 [19.86]
22	0.861 [21.87]
24	0.940 [23.88]
26	1.019 [25.88]
28	1.097 [27.86]
30	1.176 [29.87]
32	1.255 [31.88]
34	1.334 [33.88]
36	1.412 [35.86]
38	1.491 [37.87]
40	1.570 [39.88]
42	1.649 [41.88]
44	1.727 [43.87]
46	1.806 [45.87]
48	1.885 [47.88]
50	1.964 [49.89]
52	2.042 [51.87]
54	2.121 [53.87]
56	2.200 [55.88]
58	2.278 [57.86]
60	2.357 [59.87]



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]	.015 [0.38]

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

[] Dimensions for Reference only

Ordering Information

1502XX-5XX2-XX

Number of Positions
(see table 1)
(Even No.: 10 - 60)

Standoff Height Code
(see table 2, Dim B)
0 = .015" [0.38] (Standard)
1 = .053" [1.35]
2 = .028" [0.71] (Position 40,
44, and 50 only)

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

Plating suffix:

RB = 30 μ" [.76 μm] Gold with Matte Tin solder tails
(RIA E1 & C1 apply)
TB = 30 μ" [.76 μm] Gold with Tin-lead solder tails
(RIA E3 & C2 apply)

TS-0519-F
Sheet 4 of 4

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