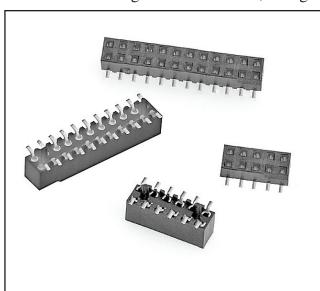
2 mm x 2 mm Straight Surface Mount, Straight and Right Angle Plated Through-Hole 1502 Series



- High Temperature Insulator
- Reflow Solder Compatible
- Low height helps minimize PCB stack height
- End Stackable
- Thru-hole versions are side stackable
- SMT parts are 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.3mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified:July 5, 2010

TS-0519-G Sheet 1 of 4

### **Physical**

### **Insulator:**

Surface Mount: Glass Filled LCP Vertical Thru-Hole: Glass filled PCT Right Angle Thru-Hole: Glass filled PCT

**Contact:** 

Material: Copper alloy

Plating:

Underplating: 1.27-3.8 1 μm [ 50-150 μ"] Nickel overall

Wiping Area: 0.76 μm [ 30 μ" ] Gold

Solder Tails:  $5.1 \,\mu m$  [  $200 \,\mu$ " ] Matte tin or tin-lead (refer to ordering information)

Marking: Orientation delta and 3M Logo (except surface mount)

### **Electrical**

**Current Rating:** 1A

**Insulation Resistance:**  $> 1 \times 10^9 \Omega$  at 250 V<sub>DC</sub> **Withstanding Voltage:** 500 V<sub>DC</sub> at Sea Level

### **Environmental**

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

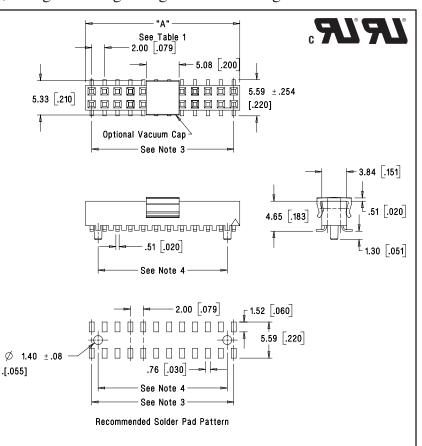
**Process Rating:** Maximum 260°C, (per J-STD-020C)

**Moisture Sensitivity Level:** 1 (per J-STD-020C)

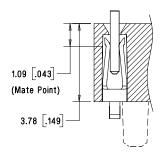
UL File No.: E68080

2 mm x 2 mm Straight Surface Mount, Straight and Right Angle Plated Through-Hole 1502 Series

Table 1					
Contact Quantity	Dimension A	Tape Width	Order Code		
04	3.96 [0.156]	n/a	n/a		
06	5.87 [0.231]	n/a	n/a		
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		



## [Inch] Tolerance Unless Noted 0 00 mm ± 2.54 ± ± .127 [] Dimensions for Reference only

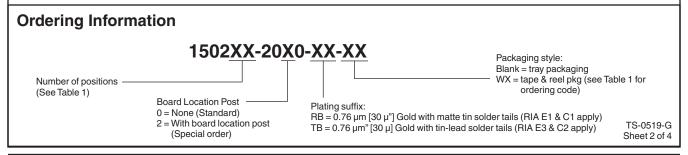


Note: Mate point same for all board mount types.

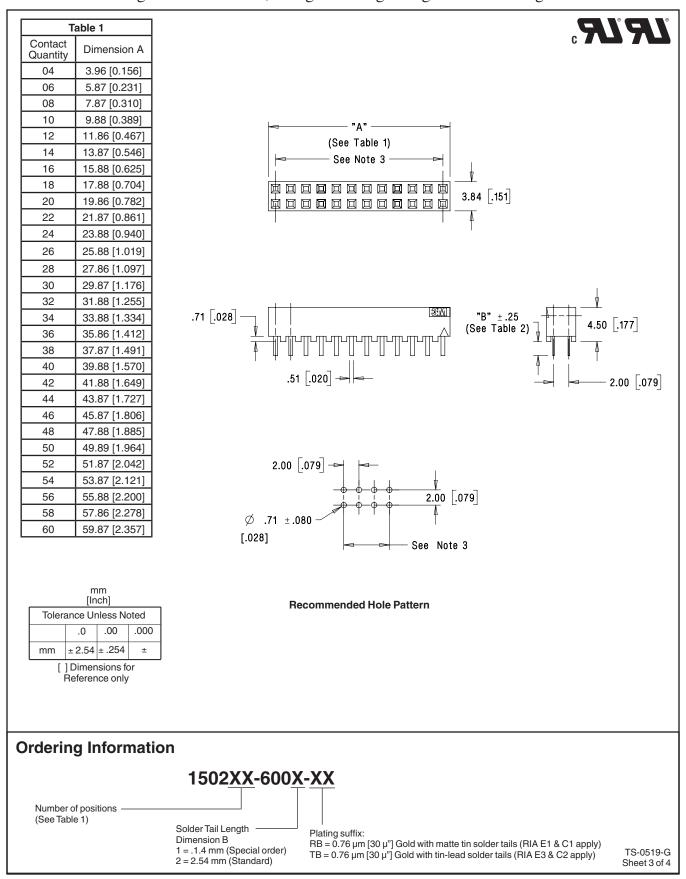
#### Notes:

- 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, then subtract 4 mm.

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



2 mm x 2 mm Straight Surface Mount, Straight and Right Angle Plated Through-Hole 1502 Series



2 mm x 2 mm Straight Surface Mount, Straight and Right Angle Plated Through-Hole 1502 Series

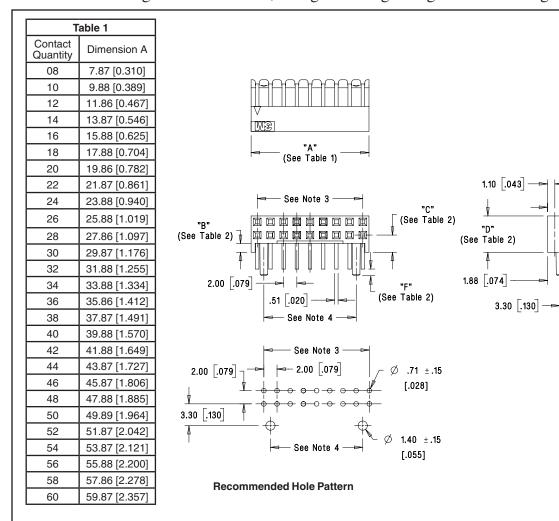
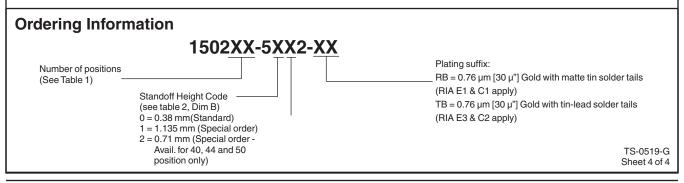


Table 2							
Standoff	Dimensions						
Height Code	В	С	D	E	F		
0	.015 [0.38]	.065 [1.65]	.179 [4.55]	.100 [2.54]	.040 [1.02]		
1	.053 [1.35]	.103 [2.62]	.217 [5.51]	.100 [2.54]	.040 [1.02]		
2	.028 [0.71]	.078 [1.98]	.192 [4.88]	.125 [3.18]	.015 [0.38]		

mm [Inch]						
Tolerance Unless Noted						
	.0	.00	.000			
mm	± 2.54	± .254	± .127			
[ ] Dimensions for Reference only						

3.78 [.149]

(See Table 2)



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