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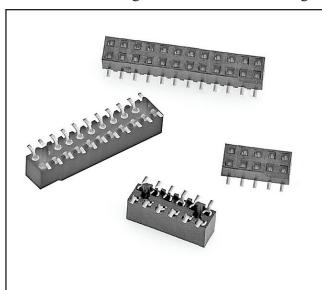
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







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

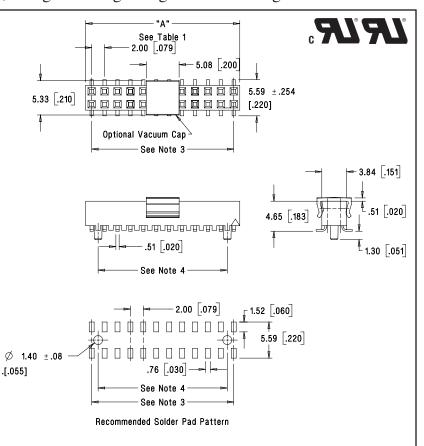
**Process Rating:** Maximum 260°C, (per J-STD-020C)

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

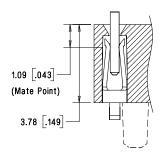
UL File No.: E68080

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Table 1					
Contact Quantity	Dimension A	Tape Order Width 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	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.

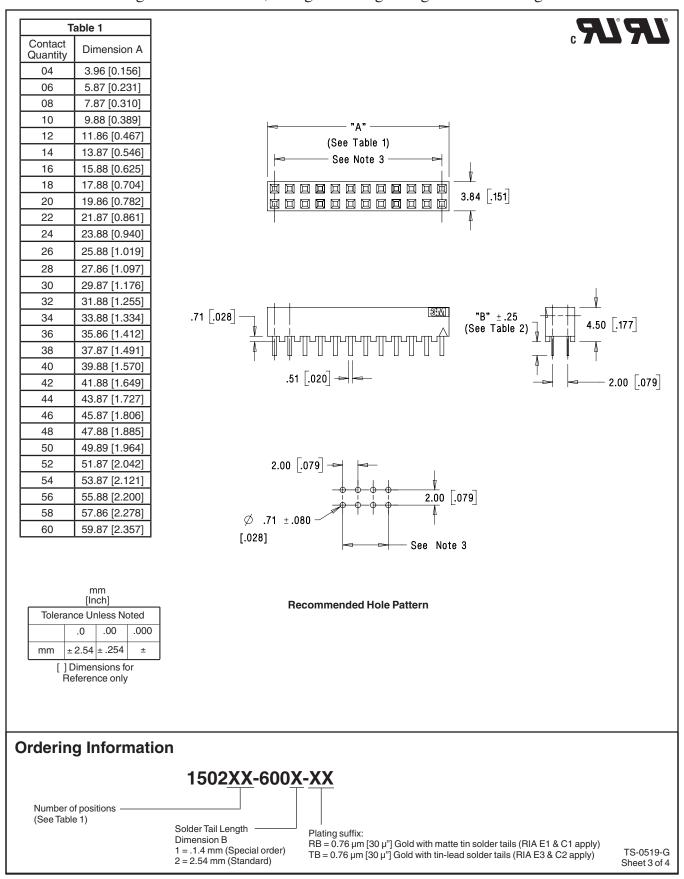
### Notes:

- 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.

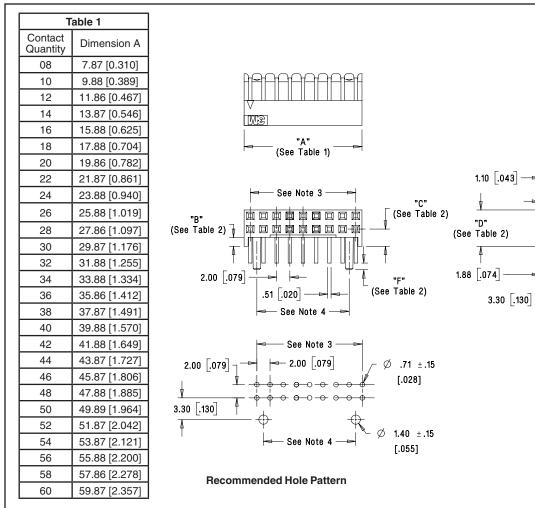
\*\*Optional Locator Posts available for positions eight and greater.

#### **Ordering Information** 1502XX-20X0-XX-XX Packaging style: Blank = tray packaging WX = tape & reel pkg (see Table 1 for Number of positions ordering code) (See Table 1) **Board Location Post** Plating suffix: 0 = None (Standard) RB = 0.76 $\mu$ m [30 $\mu$ "] Gold with matte tin solder tails (RIA E1 & C1 apply) 2 = With board location post TS-0519-G TB = $0.76 \,\mu\text{m}$ " [30 $\mu$ ] Gold with tin-lead solder tails (RIA E3 & C2 apply) (Special order) Sheet 2 of 4

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



"C" (See Table 2)	1.10 [.043] ————————————————————————————————————
∅ .71 ±.15 [.028]	
1.40 ± .15 [.055]	

Table 2						
Standoff Height Code	Dimensions					
	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						

### **Ordering Information** 1502XX-5XX2-XX Plating suffix: Number of positions RB = 0.76 $\mu m$ [30 $\mu$ "] Gold with matte tin solder tails (See Table 1) (RIA E1 & C1 apply) Standoff Height Code TB = 0.76 $\mu m$ [30 $\mu$ "] Gold with tin-lead solder tails (see table 2, Dim B) 0 = 0.38 mm(Standard)(RIA E3 & C2 apply) 1 = 1.135 mm (Special order) 2 = 0.71 mm (Special order Avail. for 40, 44 and 50 TS-0519-G position only) Sheet 4 of 4

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