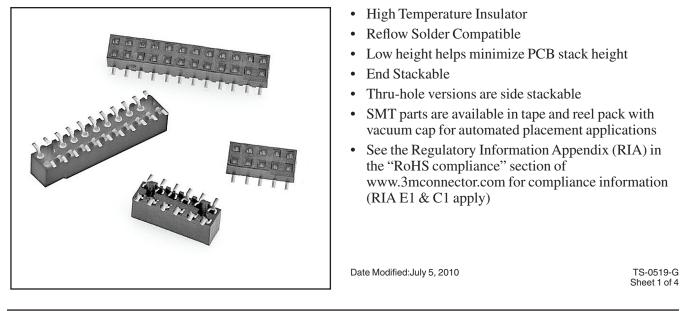
3M[™] Boardmount Socket

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



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 μ m [200 μ "] Matte tin or tin-lead (refer to ordering information)
Marking:	Orientation delta and 3M Logo (except surface mount)

Electrical

Current Rating:1 AInsulation 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

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	Table	1		
Contact Quantity	Dimension A	Tape Width	Order Code	See Table 1 C
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	Optional Vacuum Cap
14	13.87 [0.546]	24 mm	WB	
16	15.88 [0.625]	24 mm	WB	—⊶ ⊣ 3.84 [.1
18	17.88 [0.704]	44 mm	WD	
20	19.86 [0.782]	44 mm	WD	
22	21.87 [0.861]	44 mm	WD	4.65 [.183]
24	23.88 [0.940]	44 mm	WD	
26	25.88 [1.019]	44 mm	WD	1.30 [.
28	27.86 [1.097]	44 mm	WD	See Note 4
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	.[.055] .76 [.030] - - -
42	41.88 [1.649]	56 mm	WE	See Note 4
44	43.87 [1.727]	72 mm	WF	
46	45.87 [1.806]	72 mm	WF	Recommended Solder Pad Pattern
48	47.88 [1.885]	72 mm	WF	
50	49.89 [1.964]	72 mm	WF	
52	51.87 [2.042]	72 mm	WF	mm [Inch]
54	53.87 [2.121]	72 mm	WF	Tolerance Unless Noted
56	55.88 [2.200]	72 mm	WF	0.00 mm ±2.54 ± ±.127
58	57.86 [2.278]	88 mm	WG	[]Dimensions for
60	59.87 [2.357]	88 mm	WG	Reference only 1.09 [.043] U
				(Mate Point)
lotes:				3.78 [.149]
	el include vacuum p equipment.	оск-ир сар то	r pick 'n place	
2. Parts in tra	ay packaging are su			
	per row, subtract 1, ocator posts: Positi			
•	en subtract 4 mm.		папрту бу	
*Optional L	ocator Posts availal	ble for positio	ns eight and	greater.
Ordori	ng Informa	tion		
oruen				
		1	502X)	(-20X0-XX-XX Backaging style:
				Packaging style: Blank = tray packaging
	r of positions ——			WX = tape & reel pkg (see Table 1 for
Numbe (See Ta		Board Loo	cation Post -	ordering code)
		0 = None	cation Post - (Standard) oard location	Plating suffix: BB = 0.76 µm [30 µ"] Gold with matter tin solder tails (BIA E1 & C1 apply)

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TS-0519-G

Sheet 2 of 4

3.84 [.151]

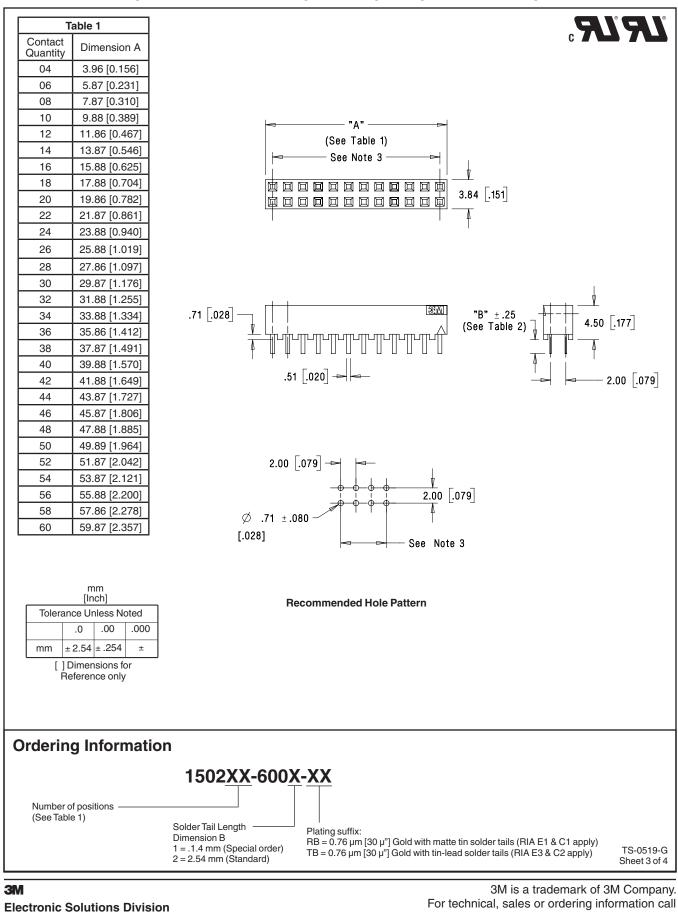
.51 [.020]

¹ 1.30 [.051]

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	able 1						
Contact Quantity	Dimensio	n A					
08	7.87 [0.3	10]					
10	9.88 [0.3	89]	hff	ÌAAAAA	억위		
12	11.86 [0.4	l67]					
14	13.87 [0.	546]	 M®				
16	15.88 [0.6	625]					
18	17.88 [0.7	'04]		"A" (See Table 1)			
20	19.86 [0.7	782]					
22	21.87 [0.8	361]				1.10 [043]
24	23.88 [0.9	940]		- See Note 3 ——	►	c	→ 3.78 [.149]
26	25.88 [1.0)19]	B. 10			able 2)	
28	27.86 [1.0					, "D" (See Table	2)
30	29.87 [1.1			<u>п</u> ппл,			
32	31.88 [1.2		t UiU	$\Downarrow \Downarrow \Downarrow \Downarrow \Downarrow \sqcup \sqcup \sqcup$	li∐⊈ Ť	Ť	
34	33.88 [1.3		2.00 [.079]	┥ ┝━──	₩ ↓ ₩ "F"	1.88 .074]
36	35.86 [1.4		.5	I [.020]	_	2)	30 [.130] → (See Table 2
38	37.87 [1.4			– See Note 4 ––=	-	3.3	
40	39.88 [1.						
42	41.88 [1.6			— See Note 3 —			
44	43.87 [1.3		00 [.079] ₇ →	⊲ 2.00 [079]	_ Ø .71 :	+ 15	
46	45.87 [1.8			➡ 2.00 [.079]	[.028]		
48	47.88 [1.8					I	
50	49.89 [1.9		[.130] 1		Ϋ́́Υ		
52	51.87 [2.0		<u> </u>		R a m		
54	53.87 [2.1	21]	-	⊢ See Note 4 —	→ [×] Ø 1.40 ± [.055]	: .15	
56	55.88 [2.2				[.055]		
58	57.86 [2.2	278]	Pacammand	ed Hole Pattern			
60	59.87 [2.3	357]	neoonniena		•		
						1	
			Table 2				mm
				Dimensions			[Inch] Tolerance Unless Noted
	ndoff		.	Dimensions	ï		
	ndoff t Code	В	С	D	E	F	
Heigh		B .015 [0.38]	C .065 [1.65]		E .100 [2.54]	F .040 [1.02]	.0 .00 .000
Heigh	t Code		-	D			.0 .00 .000 mm ± 2.54 ± .254 ± .12
Heigh	t Code	.015 [0.38] .053 [1.35]	.065 [1.65] .103 [2.62]	D .179 [4.55] .217 [5.51]	.100 [2.54] .100 [2.54]	.040 [1.02] .040 [1.02]	.0 .00 .000
Heigh	t Code	.015 [0.38] .053 [1.35] .028 [0.71]	.065 [1.65]	D .179 [4.55]	.100 [2.54]	.040 [1.02]	.00 .00 .000 mm ±2.54 ±.254 ±.12 [] Dimensions for
Heigh	t Code	.015 [0.38] .053 [1.35] .028 [0.71] mation	.065 [1.65] .103 [2.62]	D .179 [4.55] .217 [5.51] .192 [4.88]	.100 [2.54] .100 [2.54]	.040 [1.02] .040 [1.02]	.0 .00 .000 mm ± 2.54 ± .254 ± .12 [] Dimensions for
Heigh	t Code	.015 [0.38] .053 [1.35] .028 [0.71] mation	.065 [1.65] .103 [2.62] .078 [1.98]	D .179 [4.55] .217 [5.51] .192 [4.88]	.100 [2.54] .100 [2.54]	.040 [1.02] .040 [1.02] .015 [0.38] Plating suffix:	.0 .00 .000 mm ± 2.54 ± .254 ± .12 [] Dimensions for Reference only Figure 1 1
Heigh	t Code	.015 [0.38] .053 [1.35] .028 [0.71] mation	.065 [1.65] .103 [2.62] .078 [1.98]	D .179 [4.55] .217 [5.51] .192 [4.88]	.100 [2.54] .100 [2.54]	.040 [1.02] .040 [1.02] .015 [0.38] Plating suffix: RB = 0.76 μm [3	.0 .00 .000 mm ± 2.54 ± .254 ± .12 [] Dimensions for Reference only 30 μ"] Gold with matte tin solder tails
Heigh rderin	t Code	.015 [0.38] .053 [1.35] .028 [0.71] mation	.065 [1.65] .103 [2.62] .078 [1.98] 502XX-5	D .179 [4.55] .217 [5.51] .192 [4.88]	.100 [2.54] .100 [2.54]	.040 [1.02] .040 [1.02] .015 [0.38] Plating suffix: RB = 0.76 μm [3 (RIA E1 & C1 a)	.0 .00 .000 mm ± 2.54 ± .254 ± .12 [] Dimensions for Reference only 30 μ"] Gold with matte tin solder tails oply)
Heigh rderin	t Code	.015 [0.38] .053 [1.35] .028 [0.71] mation Standoff Heig (see table 2, I 0 = 0.38 mm()	.065 [1.65] .103 [2.62] .078 [1.98] 502XX-5	D .179 [4.55] .217 [5.51] .192 [4.88]	.100 [2.54] .100 [2.54]	.040 [1.02] .040 [1.02] .015 [0.38] Plating suffix: RB = 0.76 μm [3 (RIA E1 & C1 a)	.0 .00 .000 mm ± 2.54 ± .254 ± .12 [] Dimensions for Reference only 80 μ"] Gold with matte tin solder tails oply) 90 μ"] Gold with tin-lead solder tails
Heigh rderin	t Code	.015 [0.38] .053 [1.35] .028 [0.71] mation Standoff Heig (see table 2, I 0 = 0.38 mm(i 1 = 1.135 mm	.065 [1.65] .103 [2.62] .078 [1.98] 502XX-5 bt Code Dim B) Standard) (Special order)	D .179 [4.55] .217 [5.51] .192 [4.88]	.100 [2.54] .100 [2.54]	.040 [1.02] .040 [1.02] .015 [0.38] Plating suffix: RB = 0.76 μm [3 (RIA E1 & C1 aμ TB = 0.76 μm [3	.0 .00 .000 mm ± 2.54 ± .254 ± .12 [] Dimensions for Reference only 80 μ"] Gold with matte tin solder tails oply) 90 μ"] Gold with tin-lead solder tails
Heigh rderin	t Code	.015 [0.38] .053 [1.35] .028 [0.71] mation	.065 [1.65] .103 [2.62] .078 [1.98] 502XX-5 bit Code Dim B) Standard) (Special order) Special order - 0, 44 and 50	D .179 [4.55] .217 [5.51] .192 [4.88]	.100 [2.54] .100 [2.54]	.040 [1.02] .040 [1.02] .015 [0.38] Plating suffix: RB = 0.76 μm [3 (RIA E1 & C1 aμ TB = 0.76 μm [3	.0 .00 .000 mm ± 2.54 ± .254 ± .12 [] Dimensions for Reference only 80 μ"] Gold with matte tin solder tails oply) 90 μ"] Gold with tin-lead solder tails

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