.100" × .100" Low Profile, SMT Straight, PTH Straight and Right Angle

2500 Series



- Low profile, space saving design
- Center slot polarization prevents mis-insertions and reduces insertion time
- Dual slot polarization means broader compatibility with competitive polarization designs
- Optional retainer clip for locking sockets in place and increasing connection reliability in vibrationprone environments
- High temperature insulator suitable for "no lead" soldering operations
- Thru hole version suitable for "paste in hole" reflow soldering techniques
- Exposed solder tails (on right angle version) provide ease of cleaning and reduced repair costs
- RoHS* compliant
- Straight surface mount version available

Date Modified: June 21, 2006

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Physical

Insulator

Material: Glass Filled Polyester (PCT)

Flammability: UL 94V-0

Color: Black

Contact

Material: Copper Alloy

Plating

Underplating: 100 µ" [2.54 µm] Nickel - Overall

Wiping Area: $30 \mu'' [0.76 \mu m]$ Gold Solder Tails: $200 \mu'' [5.08 \mu m]$ Matte Tin

Terminal Finish Indicator: e3 (per JESD97)

Marking: 3M Logo, Part Identification Number and Orientation Triangle

Electrical

Current Rating: 2 A

Insulation Resistance: $>1 \times 10^9 \Omega$ at 500 Vdc **Withstanding Voltage:** 1000 Vrms at Sea Level

Environmental

Temperature Rating: -55° C to $+105^{\circ}$ C

Process Rating: Maximum 260°C, single pass, (profile per J-STD-020C)

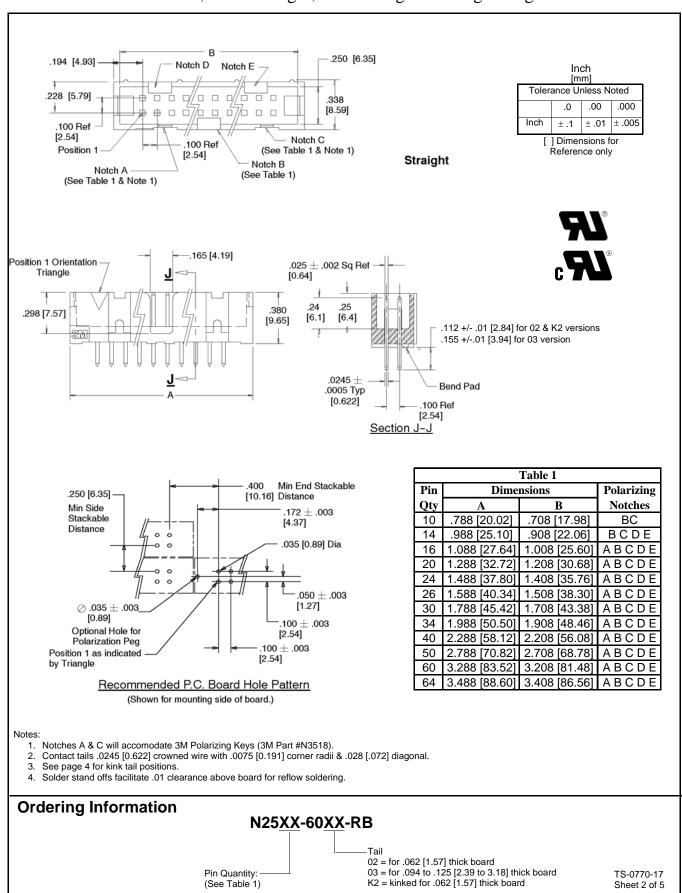
Moisture Sensitivity Level: 1 (per J-STD-020C)

*RoHS = Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment "RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

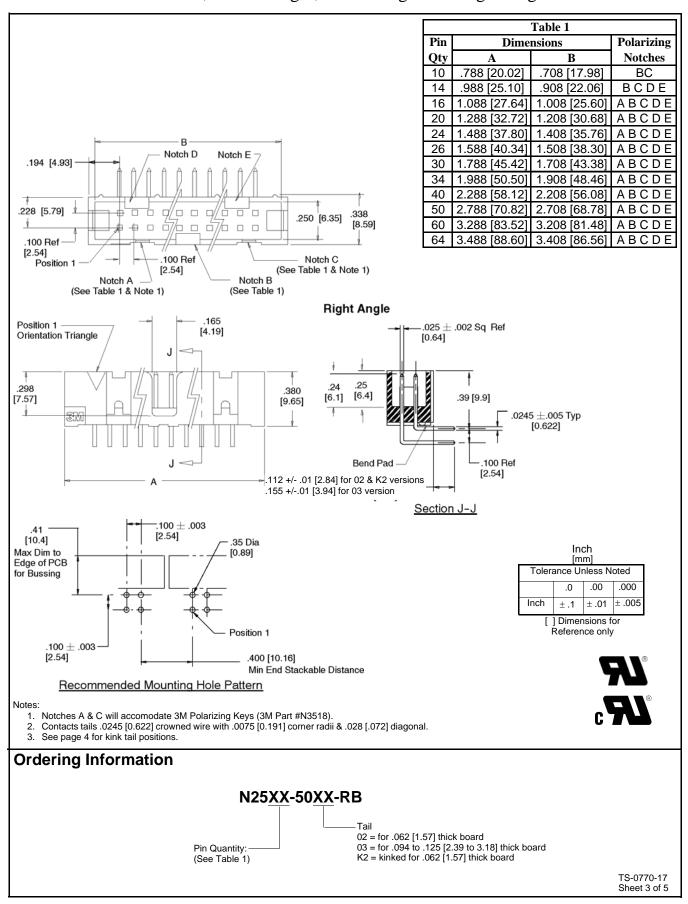
UL File No.: E68080

2500 Series

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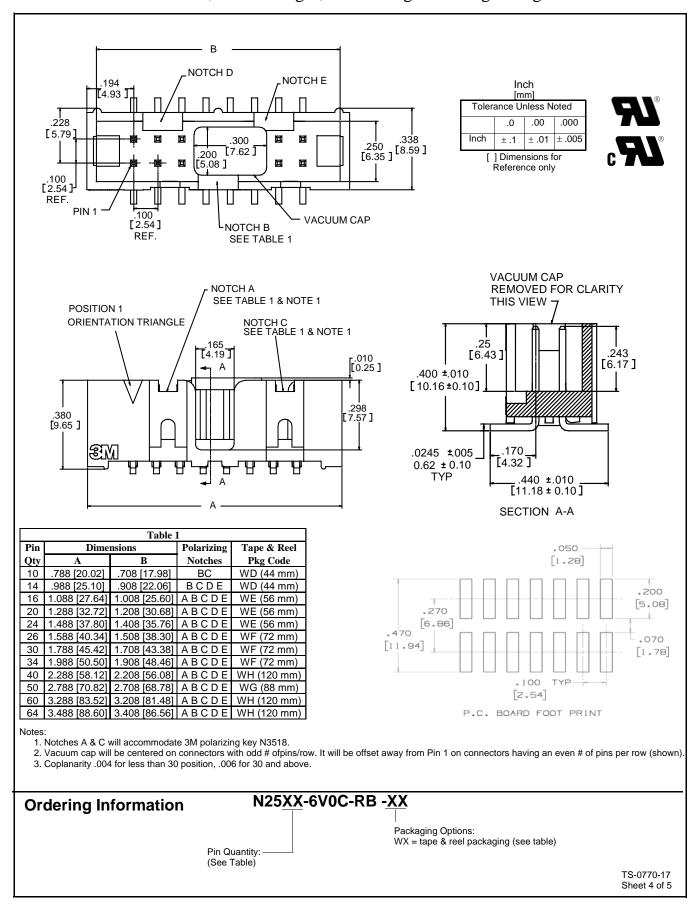


.100" × .100" Low Profile, SMT Straight, PTH Straight and Right Angle



2500 Series

.100" × .100" Low Profile, SMT Straight, PTH Straight and Right Angle



$.100^{\prime\prime}\times.100^{\prime\prime}$ Low Profile, SMT Straight, PTH Straight & Right Angle

2500 & 3000 Series Shrouded Header						
Total Number of Pins	Number of Tails Kinked	Positions Kinked				
10	4	3	4	7	8	
14	4	3	4	11	12	
16	4	3	4	13	14	
20	4	3	4	17	18	
24	4	3	4	21	22	
26	4	3	4	23	24	
30	4	5	6	25	26	
34	4	7	8	27	28	
36	4	7	8	27	28	
40	4	7	8	33	34	
50	4	7	8	43	44	
60	4	11	12	49	50	
64	4	11	12	53	54	

Kinked Tail Detail:

Kink is located .05" below bottom surface of plastic. External radius of kink toward part centerline.

Part Number | Material | Color

	3505	-33B	Ny	/lon	Blac	k
-	.144 —— [3.66]	-		.204		
330 .08]			.573 4.55]	[5.18]		=
		057	4.55]	118-		

Long Snap In Latch

[1.45]

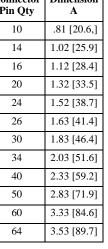
Note: Latches not compatible with reflow soldering. For reflow soldering, attach latches after soldering.

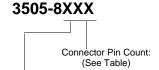
Part Number | Material | Color

[3.00]

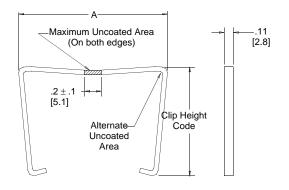
[1.09]

Connector Pin Qty	Dimension A
10	.81 [20.6,]
14	1.02 [25.9]
16	1.12 [28.4]
20	1.32 [33.5]
24	1.52 [38.7]
26	1.63 [41.4]
30	1.83 [46.4]
34	2.03 [51.6]
40	2.33 [59.2]
50	2.83 [71.9]
60	3.33 [84.6]
64	3.53 [89.7]





Clip Height Code $0=.31[\overline{7.9}]$ for Sockets W/O Strain Relief 1=.53[13.5]for Sockets with Strain Relief



Short/Long Socket Retainer Clip

Color

Note: Stainless steel with gray polyurethane coating.

Part Number

	I al t Mullibel	Matchai	COIOI
	3201-3	PCT	Black
.11: [3.0/ .370 [9.40] .030 [0.76	Dia —	.267 [6.78] † † .082 [2.10	
	Polarizino	a Post	

N3518	LCP	Black	0.02
Breakaway Tab — .15 [3.8			09 [2.3] A

Material

Note: #2216 B/A Scotchweld can be used to adhere keys.

Polarizing Keys

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