3M[™] 4-Wall Header

.100" × .100" Low Profile, SMT Straight, Straight and Right Angle Thru Hole2500 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 (not 10 pos.)
- Optional retainer clip for locking sockets in place and increasing connection reliability in vibrationprone environments
- Optional High temperature insulator suitable for "no lead" soldering operations
- High temperature option in 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 version (RB Plating Suffix) available
- Straight surface mount version available

Date Modified: August 1, 2006

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Physical

Insulator

Glass Filled Polyester (PBT), Glass Filled Polyester (PCT) - High tempera-Material:

ture option Flammability: UL 94V-0

Color: Gray (PBT), Beige (PCT) or Black (PCT) - RoHS compliant

Contact Material: Copper Alloy

Plating

Underplating: 100 μ" [2.54 μm] Nickel - Overall Wiping Area: Gold (See Ordering Information)

Solder Tails: 200 µ" [5.08 µm] Tin Lead or Matte Tin (See Ordering Information)

Terminal Finish Indicator: e3 (For RB Plating Suffix) (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

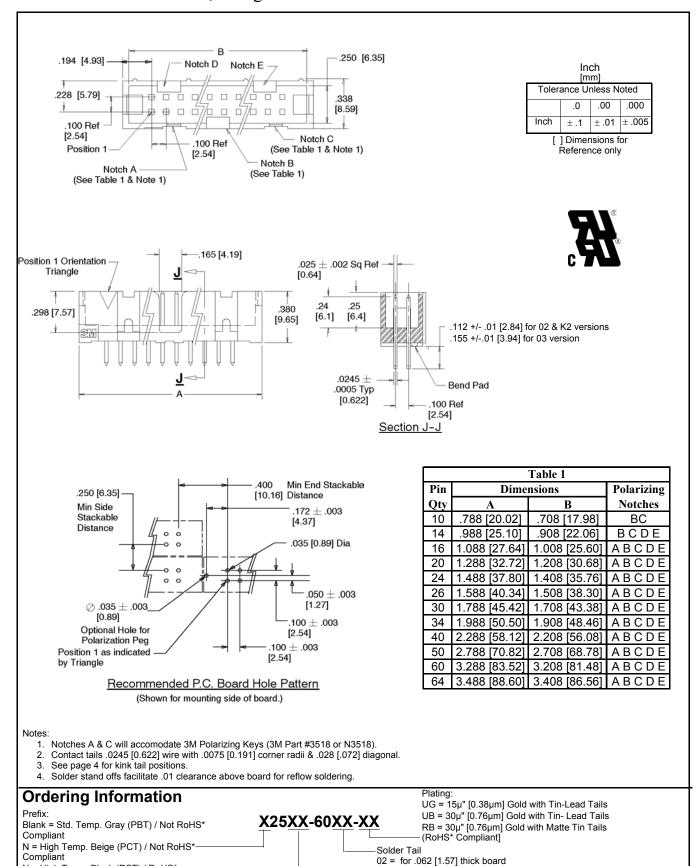
Temperature Rating: -55°C to +105°C

 260°C , (High Temp & RoHS Compliant versions only), single pass, (profile per J-STD-020C) **Process Rating:**

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

.100" × .100" Low Profile, Straight Thru Hole



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800-225-5373

03 = for .094 to .125 [2.39 to 3.18] thick board

K2 = for .062 [1.57] thick board

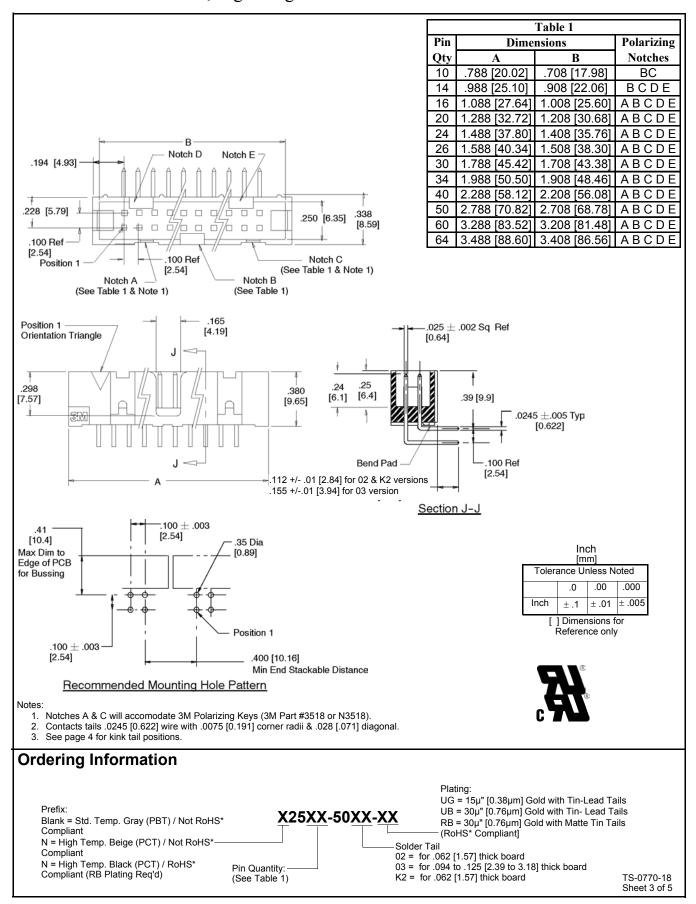
N = High Temp. Black (PCT) / RoHS*

Compliant (RB Plating Reg'd)

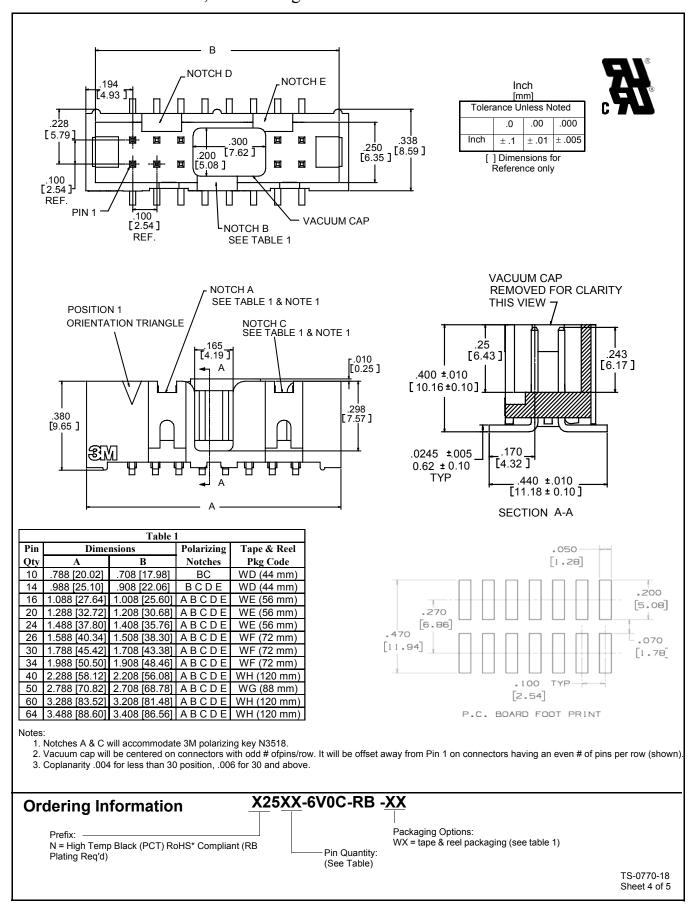
Pin Quantity:

(See Table 1)

.100" × .100" Low Profile, Right Angle Thru Hole



.100" × .100" Low Profile, SMT Straight



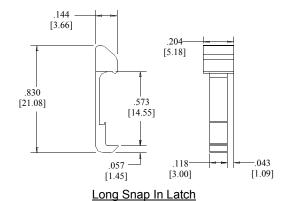
$.100'' \times .100''$ Low Profile, Accessories

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:

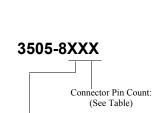
Kink is located .05" below bottom surface of plastic. External radius of kink toward part centerline.

Part Number	Material	Color
3505-33B	Nylon	Black
3201-1	PBT	Gray

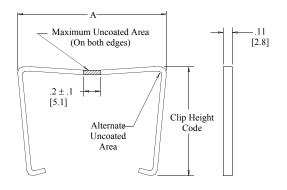


Note: Latches not compatible with reflow soldering. For reflow soldering, attach latches after soldering.

Dimension A
.81 [20.6,]
1.02 [25.9]
1.12 [28.4]
1.32 [33.5]
1.52 [38.7]
1.63 [41.4]
1.83 [46.4]
2.03 [51.6]
2.33 [59.2]
2.83 [71.9]
3.33 [84.6]
3.53 [89.7]



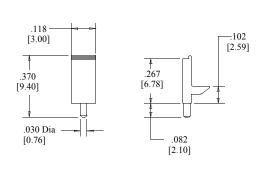
Clip Height Code 0=.31 [7.9] for Sockets W/O Strain Relief 1=.53 [13.5] for Sockets with Strain Relief



Short/Long Socket Retainer Clip

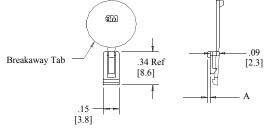
Note: Stainless steel with gray polyurethane coating.

Part Number	Material	Color
3201-3	PCT	Black
3201-1	PBT	Gray



Polarizing Post

Part Number	Material	Color	Dim A
N3518	LCP	Black	0.02
3518	PBT	Gray	0.02
	50M		



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

Polarizing Keys

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