3M[™] Four-Wall Header

.100" × .100" Latch/Ejector, Straight and Right Angle

3000 Series



- Military (with 3M's 3518 & N3518 polarizing key) and centerbump polarization
- Optional ejector latches
- · Mounting holes for securing header to board
- Optional polarizing posts available
- High temperature insulator option suitable for "no lead" soldering operations
- High temperature option suitable for reflow soldering using "paste in hole" techniques
- Solder tail option
- See Regulatory Information Appendix for chemical compliance information

Date Modified: May 19, 2009

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Physical

Insulator:

Material: Glass Filled Polyester (PBT) Glass Filled Polyester (PCT) - (High Temp Option)

Flammability: UL 94V-0

Color: Gray (PBT), Beige (PCT), Black (PCT)

Contact:

Material: Copper Alloy

Plating:

Underplating: Nickel - Overall (See Ordering Information)

Wiping Area: 30 μ" [0.76 μm] Gold

Solder Tails: Tin Lead or Matte Tin (See Ordering Information)

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

Electrical

Current Rating: 2 A (EIA 364-70)

Insulation Resistance: $>1 \times 10^9 \,\Omega$ at $500 \,V_{DC}$ Withstanding Voltage: $1,000 \,V_{RMS}$ at Sea Level

Environmental

Temperature Rating: -55°C to +105°C

Process Rating: 260°C - (High Temp PCT insulator verson), single pass, (profile per J-STD-020C)

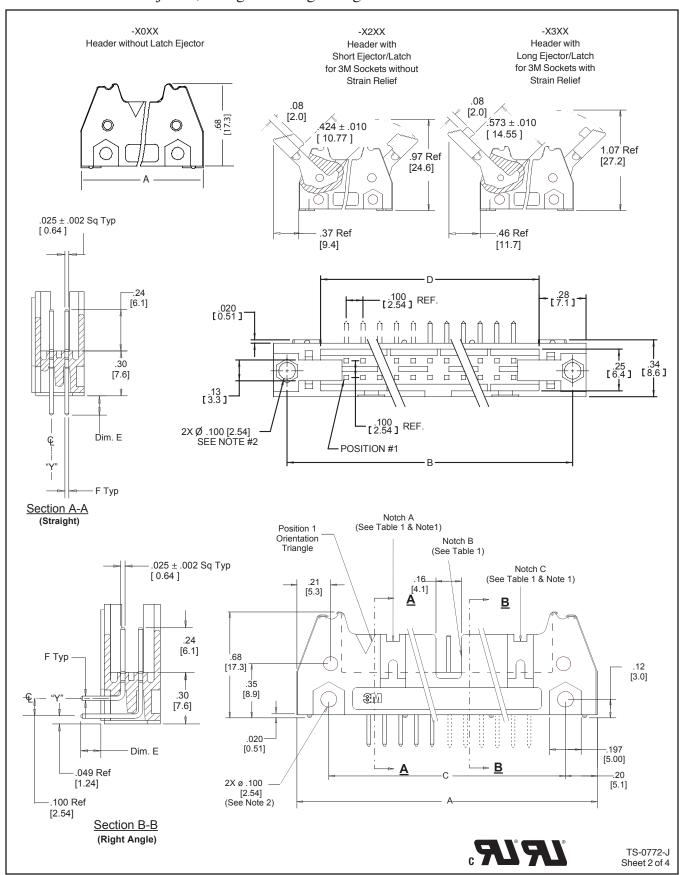
(PBT insulator version), maximum insulator temperature 191°C (solder wave

processonly)

Moisture Sensitivity Level: 1 (per J-STD-020C) High Temp. (PCT) versions only

UL File No.: E68080

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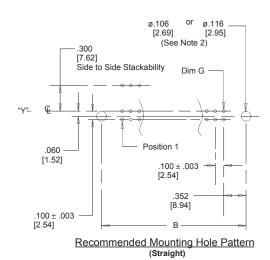
.100" × .100" Latch/Ejector, Straight and Right Angle

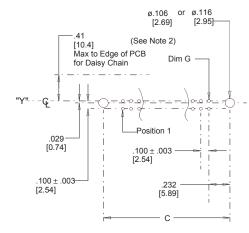
Table 1							
Din Oh	3M Part		Polarizing				
Pin Qty	Number	Α	В	С	D	Notches	
10	3793	1.265 (32.13)	1.104 (28.04)	0.865 (21.97)	0.705 (17.91)	BC	
14	3314	1.465 (37.21)	1.304 (33.12)	1.065 (27.05)	0.905 (22.99)	BC	
16	3408	1.565 (39.75)	1.404 (35.66)	1.165 (29.59)	1.005 (25.53)	ABC	
20	3428	1.765 (44.83)	1.604 (40.74)	1.365 (34.67)	1.205 (30.61)	ABC	
24	3627	1.965 (49.91)	1.804 (45.82)	1.565 (39.75)	1.405 (35.69)	ABC	
26	3429	2.065 (52.45)	1.904 (48.36)	1.665 (42.29)	1.505 (38.23)	ABC	
30	3440	2.265 (57.53)	2.104 (53.44)	1.865 (47.37)	1.705 (43.31)	ABC	
34	3431	2.465 (62.61)	2.304 (58.52)	2.065 (52.45)	1.905 (48.39)	ABC	
40	3432	2.765 (70.23)	2.604 (66.14)	2.365 (60.07)	2.205 (56.01)	ABC	
50	3433	3.265 (82.93)	3.104 (78.84)	2.865 (72.77)	2.705 (68.71)	ABC	
60	3372	3.765 (95.63)	3.604 (91.54)	3.365 (85.47)	3.205 (81.41)	ABC	
64	3764	3.965 (100.71)	3.804 (96.62)	3.565 (90.55)	3.405 (86.49)	ABC	

Inch (mm)							
Tolerance Unless Noted							
	.0	.00	.000				
Inch	±.1	±.01	±.005				
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[] Dimensions for Reference only

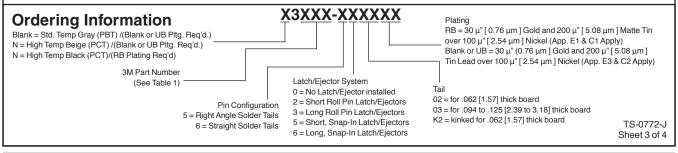
Table 2								
3M Part Number Suffix Contact Tail Dim E Pin Cross Section Dim					Dim G			
-5XX2	Solder Tail for .062 (1.57) Thick PC Board	.062 (1.57)		.112 ± .010	Dim F .0245 ± .0005	Diagonals	Corner Radii .0075 Ref	0.035 ± .003
-6XX2			(2.84)	(0.622)	(0.71)	(0.191)	(0.89) (See Note 3)	
-5XO3	Solder Tail for 0.94 (2.39) to .125 (3.18) Thick PC Board	.155 ± .010	.0245 ± .0005	.028 ± .001	.0075 Ref	0.005 000 (0.00)		
-6XO3		(2.39) to .125 (3.18) Thick PC Board	(2.39) to .125 (3.18) Thick PC Board	(3.94)	(0.622)	(0.71)	(0.191)	0.035 ± .003 (0.89)





Recommended Mounting Hole Pattern (Right Angle)

- Notes: 1. Notches A & C will accomodate 3M Polarizing Keys (3M Part #3518 or #N3518).
 - 2. Mounting hardware: From solder side of pc board use #4-24 thread cutting screw (3M Part # 3341-5) and .116 [2.95] dia mounting hole. For right angle version only, #2-56 bolt and nut (3M Part # 3341-6) with .106 [2.69] dia mounting hole may be used.
 - 3. The recommended PCB hole size for the kinked tail positions on the .112 solder tail connector is .035 ± .002. See page 4 for kink position details (K2 version).
 - 4. Contact your 3M sales representative for custom requirements.



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Part Customization

This spec sheet details our standard offering.

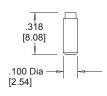
3M has several capabilities that can provide a part tailored to your specific needs. Ask your 3M sales representative or customer service for more details.

Both snap in and roll pin latches may be ordered separately. Snap in and roll style latches are dimensionally and functionally equivalent. If ordering snap-in or roll pin style latches separately, please use the below chart.

	Short Latch	Long Latch	Latch Style	Color
Standard Temperature (PBT)	3505-2	3505-3	Roll Pin	Gray
High Temperature (PCT)	N3505-2	N3505-3	Roll Pin	Beige
High Temperature (PCT)	N3505-2B	N3505-3B	Roll Pin	Black
High Temperature (PPA)	3505-30	3505-31	Snap-In	Gray
High Temperature (PPA)	N3505-30	N3505-31	Snap-In	Beige
High Temperature (PPA)	N3505-30B	N3505-31B	Snap-In	Black

- Selective pin removal (ATA or other compatability)
- · Wire wrap tails styles

Polarizing Post



3201-4	LCP	Black
3201-5	PBT	Gray

Note: Insert Post into one mounting hardware hole on bottom of header. Set post to protrude .115" [2.92].

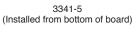
2500 & 3000 Series Shrouded Header					
Total Number of Pins	Number of Tails Kinked	Positions Kinked			
10	4	3	4	7	8
14	4	3	4	11	12
16	4	3	4	13	14
20	4	3	4	17	18
24	4	3	4	21	22
26	4	3	4	23	24
30	4	5	6	25	26
34	4	7	8	27	28
36	4	7	8	27	28
40	4	7	8	33	34
50	4	7	8	43	44
60	4	11	12	49	50
64	4	11	12	53	54

Kinked Tail Detail:

Kink is located .05" below bottom surface of plastic.

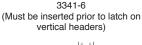
External radius of kink toward part centerline.

Mounting Hardware





Panhead Thread Cutting Screw: #4-24 X 5/16" Type: USA Std BT, Federal BG



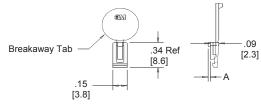


Hex Head Bolt, Nut and Washer Bolt - #2-56 X 1/2"

3341-5 & 6 Material - Stainless Steel

Polarizing Keys

			Dim A
N3518	LCP	Black	.02
3518	PBT	Gray	.02



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

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