

3M™ Four-Wall Header

.100" × .100" Latch/Ejector, Straight, Compliant Pin

3000 Series



- Military (with 3M's 3518 and N3518 polarizing key) and centerbump polarization
- Optional ejector latches
- Optional polarizing posts
- Mounting holes for securing header to board
- Dependable eye-of-the needle pin design
- Optional high-temperature insulator
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnectors.com for compliance information

Date Modified: April 3, 2013

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Physical

Insulation:

Material: Glass Filled Polyester (PBT) Glass Filled Polyester (PCT)

Flammability: UL 94V-0

Color: Gray (PBT), Black (PCT)

Contact:

Material: Copper Alloy

Plating:

Underplating: 100 μ" [2.54 μm] Nickel

Wiping Area: 30 μ" [0.76 μm] Gold

Solder Tails: 100 μ" [2.54 μm] Tin Lead or 300u" [7.62 μm] Matte Tin (See Ordering Information)

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

Electrical

Current Rating: 1 A

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

UL File No.: E68080



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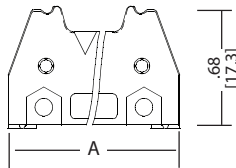
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3M™ Four-Wall Header

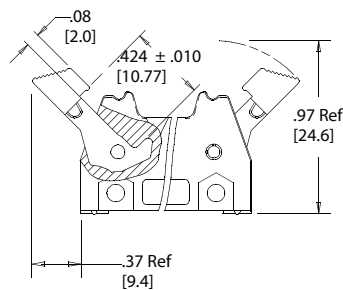
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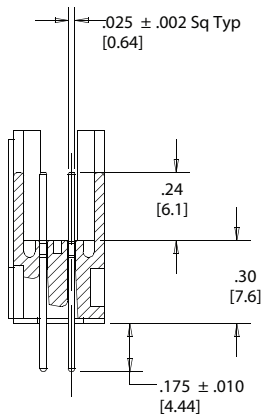
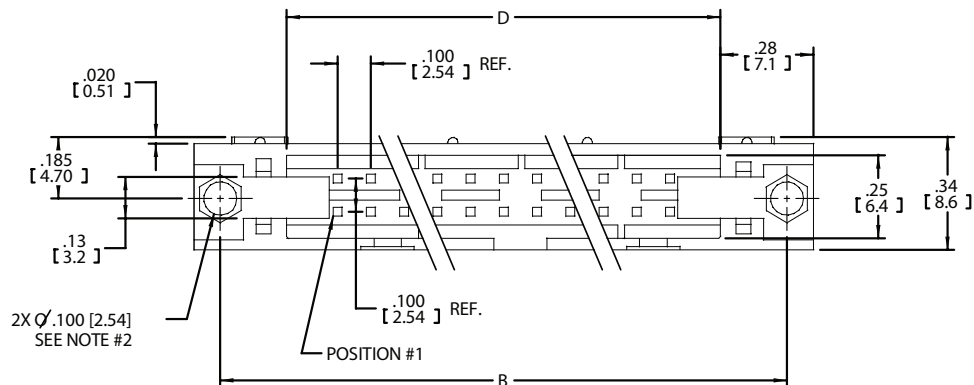
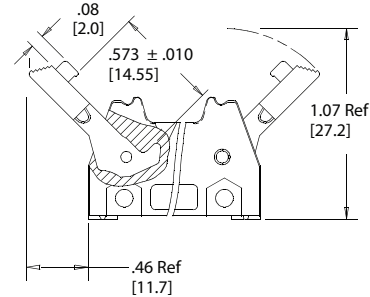
-600T02
Header
with No Ejector/Latch



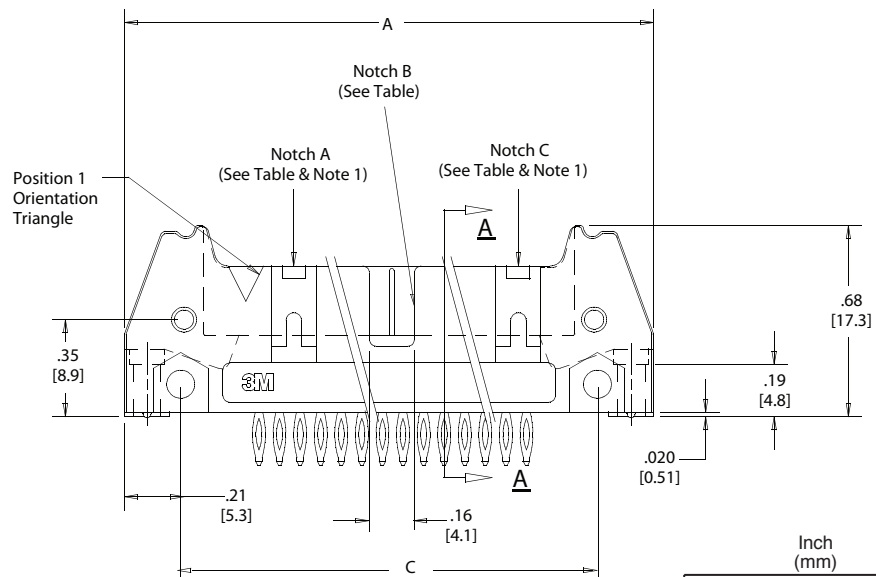
-620T02
Header
with Short Ejector/Latch
for 3M Sockets without Strain Relief



-630T02
Header
with Long Ejector/Latch
for 3M sockets with Strain Relief



Section A-A



Notes:

- Notches A & C will accommodate 3M Polarizing Keys 3518 or N3518.
- Accepts Rear and Front entry mounting hardware:
Rear Entry: #4-24 thread cutting screw
3M Part # 3341-5 (.116 [2.95] dia. mounting hole).
Front Entry (Prior to installation of latch): #2-56 Bolt and Nut
3M Part # 3341-6 (.106 [2.69] dia. mounting hole).

See illustrations on page 4

Tolerance Unless Noted			
	.0	.00	.000
Inch	± .1	± .01	± .005

[] Dimensions for
Reference only



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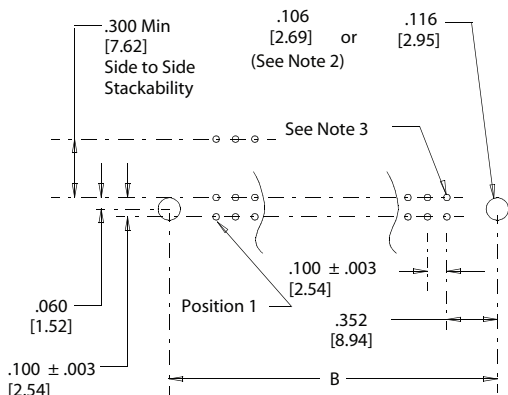
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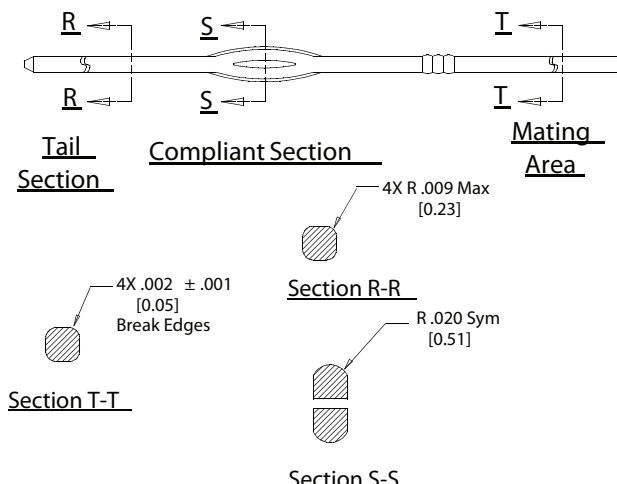
.100" × .100" Latch/Ejector, Straight, Compliant Pin

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Pin Qty	3M Part Number	Dimensions				Polarizing Notches Provided	Insertion platen 3442-00XX
		A	B	C	D		
10	3793	1.26 (32.1)	1.105 (28.07)	0.865 (21.97)	0.71 (18.0)	BC	3442-0048
14	3314	1.46 (37.2)	1.305 (33.15)	1.065 (27.05)	0.91 (23.1)	BC	3442-0049
16	3408	1.56 (39.7)	1.405 (35.69)	1.165 (29.59)	1.01 (25.6)	ABC	3442-0050
20	3428	1.76 (44.8)	1.605 (40.77)	1.365 (34.67)	1.21 (30.7)	ABC	3442-0051
24	3627	1.96 (49.9)	1.805 (45.85)	1.565 (39.75)	1.41 (35.8)	ABC	3442-0052
26	3429	2.06 (52.4)	1.905 (48.39)	1.665 (42.29)	1.51 (38.3)	ABC	3442-0053
30	3440	2.26 (57.5)	2.105 (53.47)	1.865 (47.37)	1.71 (43.4)	ABC	3442-0054
34	3431	2.46 (62.6)	2.305 (58.55)	2.065 (52.45)	1.91 (48.5)	ABC	3442-0055
40	3432	2.76 (70.2)	2.605 (66.17)	2.365 (60.07)	2.21 (56.1)	ABC	3442-0056
50	3433	3.26 (82.9)	3.105 (78.87)	2.865 (72.77)	2.71 (68.8)	ABC	3442-0057
60	3372	3.76 (95.6)	3.605 (91.57)	3.365 (85.47)	3.21 (81.5)	ABC	3442-0058
64	3764	3.96 (100.7)	3.805 (96.65)	3.565 (90.55)	3.41 (86.6)	ABC	3442-0059



Recommended Mounting Hole Pattern



Note:

- Listed below are the PCB hole sizes and tolerances recommended for use with 3M's compliant pin header. The insertion force is designed not to exceed 40 pounds per pin and the withdrawal force is not less than 10 pounds per pin.
- Use of snap-in latch/ejectors in either short (N3XXX-650T02XX) or long (N3XXX-660T02XX) styles, installed or shipped separately. (-5 & -6 snap-in latches are dimensionally and functionally equivalent to -2 & -3 roll pin latches)

If ordering Snap-In style latches separately, please use the chart below

	Short Latch	Long Latch	Color
High Temp (PPA)	3505-30	3505-31	Gray
High Temp (PPA)	N3505-30B	N3505-31B	Black

Pin Cross Sections

Hole Size for:
 Preferred Drilled - $\phi .0453 \pm .0005$
 Acceptable Drilled - $\phi .0453 \pm .0005$
 - .0010
 After Etchback - $\phi .0460$ Max
 After Plating - $\phi .0440 \pm .003$
 Board thickness - .093 to .150
 Plating:
 .001 Minimum Copper plating thickness
 .0003 Min Tin plating

Ordering Information

X XXXX - 6X0T02XX

Prefix:

Blank = Std. Temp Gray (PBT): (TC Plating Req'd)
 N = High Temp Black (PCT) (RB Plating Req'd)

3M Part Number

Latch/Ejector System:

- 0 = No latch/ejectors
- 2 = Short latch/ejectors
- 3 = Long latch/ejectors
- 5 = Short, Snap-In Latch/Ejectors
- 6 = Long, Snap-In Latch/Ejectors

Plating suffix:

TC = 30 μ " Gold w/Tin-Lead Tails (App. E2 & C2 Apply)
 RB = 30 μ " Gold w/Matte Tin Tails (App. E1 & C1 Apply)

Assembly Equipment: Use 3442-00XX platen (see chart above) and appropriate commercial arbor press to press header into pc board.

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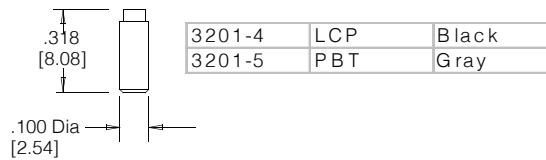
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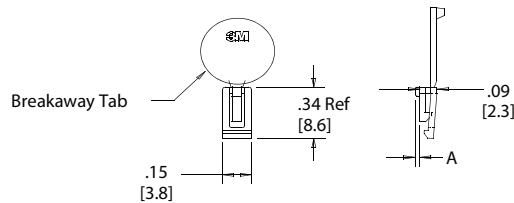
Polarizing Post



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

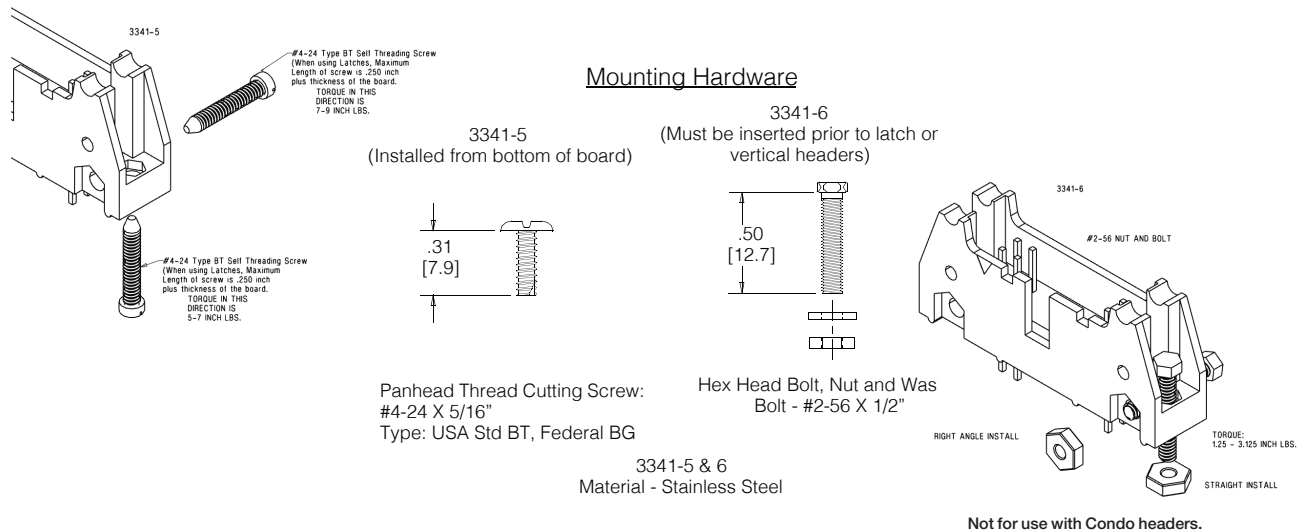
Polarizing Keys

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



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

Mounting Hardware



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