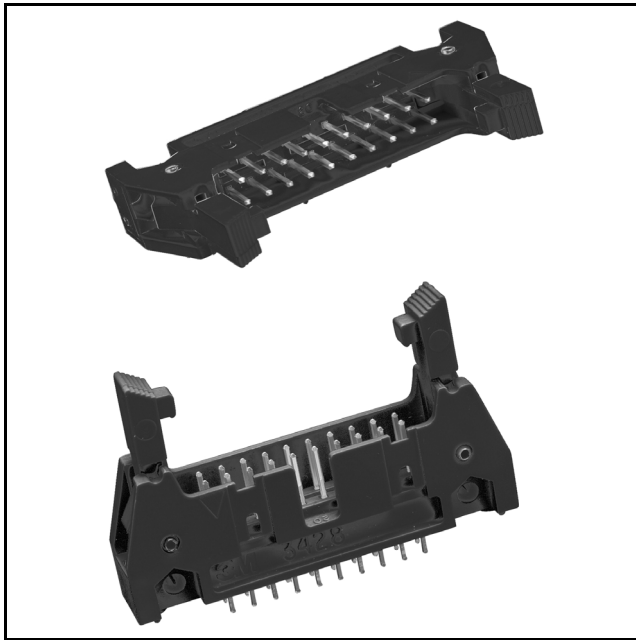


# 3M™ Pak 100 4-Wall Header

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

3000 Series



- Military (with 3M's 3518 polarizing key) and centerbump polarization
- Standard ejector latches
- Mounting holes for securing header to board
- RoHS\* compliant
- Optional polarizing posts
- High temperature insulator suitable for “no lead” soldering operations
- Suitable for reflow soldering using “paste in hole” techniques

Date Modified: January 7, 2005

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Sheet 1 of 4

## 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 μ" [ 0.76 μm ] Gold  
Solder Tails: 200 μ" [ 5.08 μm ] Matte Tin  
Terminal Finish Indicator: e3 (per JESD97)

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

## Electrical

Current Rating: 1 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

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

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

UL File No.: E68080

\*RoHS = Directive 2002/95/EC,  
Restriction on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment.

# 3M™ Pak 100 4-Wall Header

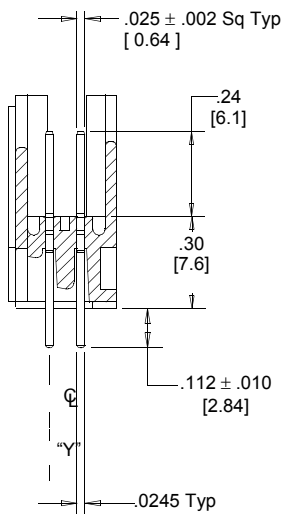
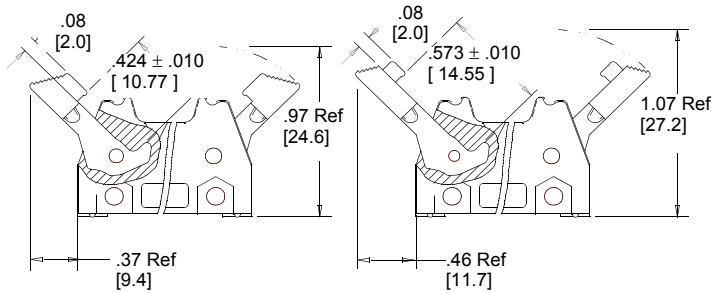
.100" × .100" Latch/Ejector, Straight and Right Angle

3000 Series

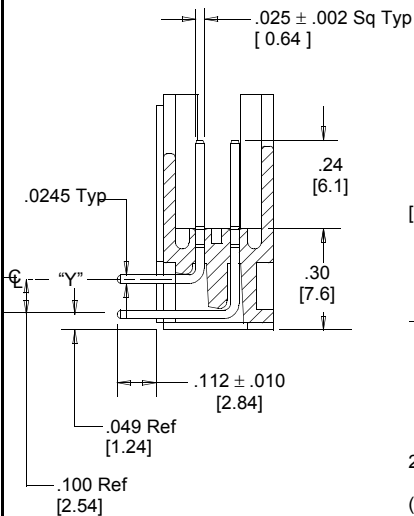
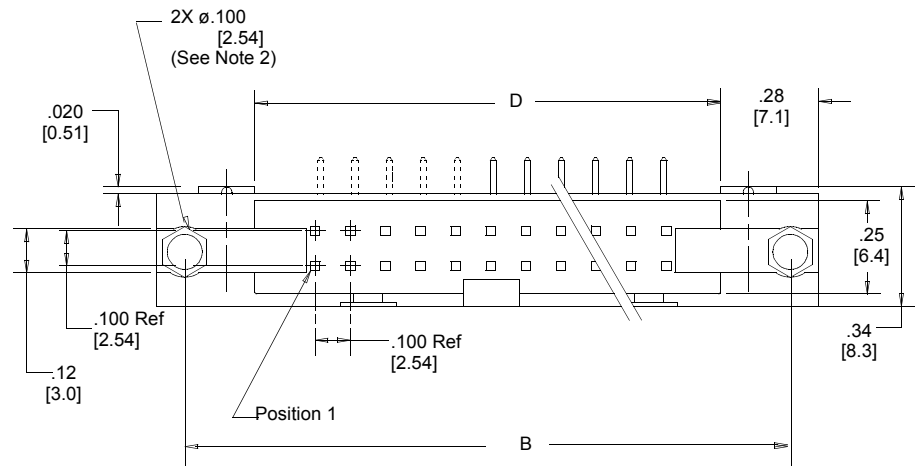


-X202  
Header with  
Short Ejector/Latch  
for 3M Sockets without  
Strain Relief

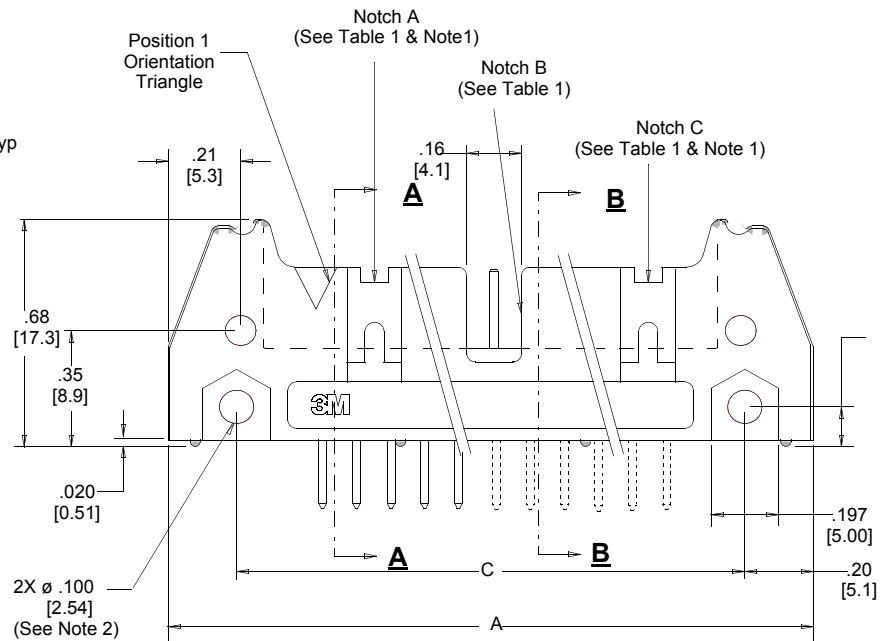
-X302  
Header with  
Long Ejector/Latch  
for 3M Sockets with  
Strain Relief



**Section A-A**  
(Straight)



**Section B-B**  
(Right Angle)



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# 3M™ Pak 100 4-Wall Header

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

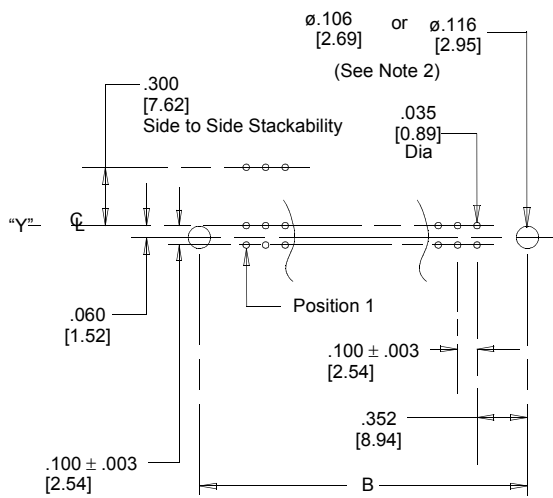
3000 Series

Table 1

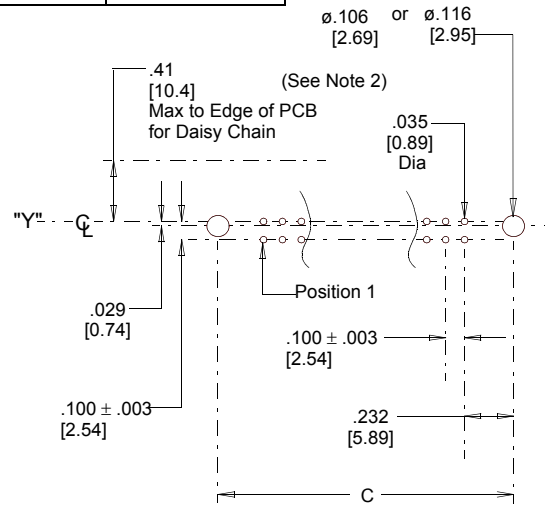
| Pin Quantity | 3M Part Number | Dimensions   |               |               |              | Polarization Notches Provided |
|--------------|----------------|--------------|---------------|---------------|--------------|-------------------------------|
|              |                | A            | B             | C             | D            |                               |
| 10           | 3793           | 1.26 [32.1]  | 1.105 [28.07] | .865 [21.97]  | .71 [18.0]   | B C                           |
| 14           | 3314           | 1.46 [37.2]  | 1.305 [33.15] | 1.065 [27.05] | .91 [23.1]   | B C                           |
| 16           | 3408           | 1.56 [39.7]  | 1.405 [35.69] | 1.165 [29.59] | 1.01 [25.6]  | A B C                         |
| 20           | 3428           | 1.76 [44.8]  | 1.605 [40.77] | 1.365 [34.67] | 1.21 [30.7]  | A B C                         |
| 24           | 3627           | 1.96 [49.8]  | 1.805 [45.85] | 1.565 [39.75] | 1.41 [35.8]  | A B C                         |
| 26           | 3429           | 2.06 [52.4]  | 1.905 [48.39] | 1.665 [42.29] | 1.51 [38.3]  | A B C                         |
| 30           | 3440           | 2.26 [57.4]  | 2.105 [53.47] | 1.865 [47.37] | 1.71 [43.43] | A B C                         |
| 34           | 3431           | 2.46 [62.6]  | 2.305 [58.55] | 2.065 [52.45] | 1.91 [48.5]  | A B C                         |
| 40           | 3432           | 2.76 [70.2]  | 2.605 [66.17] | 2.365 [60.07] | 2.21 [56.1]  | A B C                         |
| 50           | 3433           | 3.26 [82.9]  | 3.105 [78.87] | 2.865 [72.77] | 2.71 [68.8]  | A B C                         |
| 60           | 3372           | 3.76 [95.6]  | 3.605 [91.57] | 3.365 [85.47] | 3.21 [81.5]  | A B C                         |
| 64           | 3764           | 3.96 [100.7] | 3.805 [96.65] | 3.565 [90.55] | 3.41 [86.6]  | A B C                         |

| Tolerance Unless Noted |           |       |        |
|------------------------|-----------|-------|--------|
|                        | Inch [mm] |       |        |
|                        | .0        | .00   | .000   |
| Inch                   | ± .1      | ± .01 | ± .005 |

[ ] Dimensions for Reference only



Recommended Mounting Hole Pattern (Straight)



Recommended Mounting Hole Pattern (Right Angle)

Notes:

1. Notches A & C will accommodate 3M Polarizing Keys (3M Part #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. .112 [2.84] tail length suitable for .062 [1.57] thick pc board.
4. Contact tails .0245 [0.622] crowned wire with .0075 [0.191] corner radii & .028 [0.72] diagonal.
5. Contact your 3M sales representative for custom requirements.

## Ordering Information

**NXXXX-XX02RB**

3M Part Number  
(See Table 1)

Pin Configuration  
5 = Right Angle  
6 = Straight

Latch/Ejector System  
2 = Short Roll Pin Latch/Ejectors  
(3M Part # N3505-2)  
3 = Long Roll Pin Latch/Ejectors  
(3M Part # N3505-3)

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Sheet 3 of 4

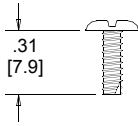
# 3M™ Pak 100 4-Wall Header

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

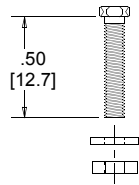
3000 Series

## Mounting Hardware

**3341-5**  
(Installed from bottom of board)



**3341-6**  
(Right angle product only)

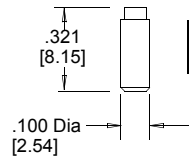


Panhead Thread Cutting Screw:  
#4-24 X 5/16"  
Type: USA Std BT, Federal BG

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

**3341-5 & 6**  
Material - Stainless Steel

## Polarizing Post

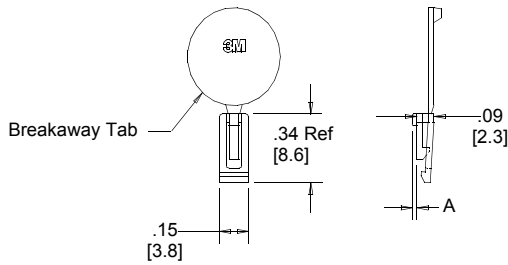


| Part Number | Material | Color |
|-------------|----------|-------|
| 3201-4      | LCP      | Black |

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

## Polarizing Keys

| Part Number | Material | Color | Dim A |
|-------------|----------|-------|-------|
| N3518       | Nylon    | Black | 0.02  |



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

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Sheet 4 of 4

## Important Notice

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