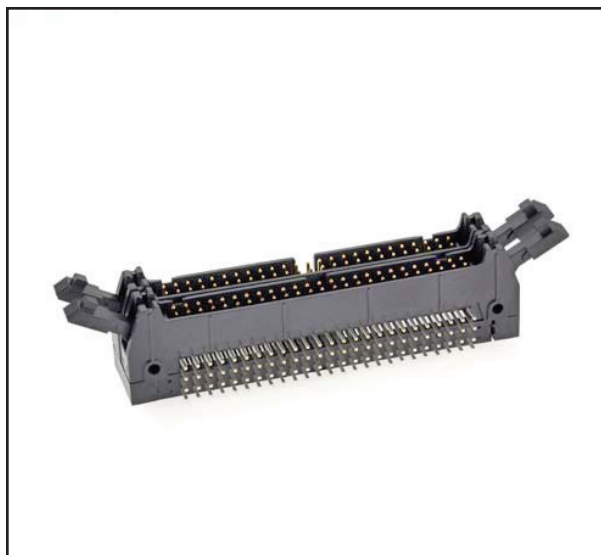


# 3M™ Four-Wall Condo Header

.100" × .100" Right Angle

3000 Series



- Stacked pins conserve space on the circuit board allowing higher density packaging
- Pin quantity to 128 gives design flexibility with latching
- “HDI” alternative
- Accepts standard IDC sockets
- Mates with standard flat cable harnesses
- Optional high temperature insulator suitable for “no lead” soldering operations
- High temperature option suitable for reflow soldering using “paste in hole” techniques
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: May 22, 2012

TS-0774-F  
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## Physical

### Insulation:

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

Flammability: UL 94V-0

Color: Gray (PBT), Black (PCT)

### 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 ] 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<sub>DC</sub>

**Withstanding Voltage:** 1,000 V<sub>RMS</sub> at Sea Level

## Environmental

**Temperature Rating:** -55°C to +105°C

**Process Rating:** 260°C - (High Temp PCT insulator version), single pass, (profile per J-STD-020C) (PBT insulator version), maximum insulator temperature 191°C (solder wave process only)

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

UL File No.: E68080



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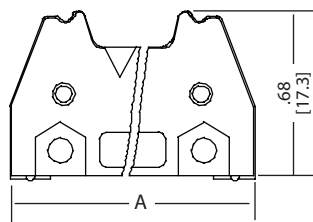
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# 3M™ Four-Wall Condo Header

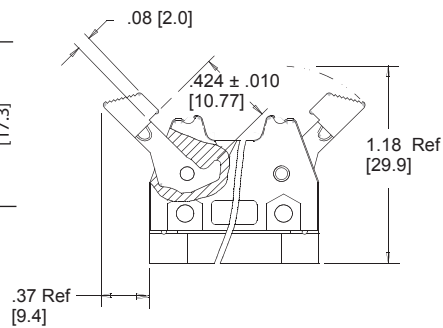
.100" × .100" Right Angle

3000 Series

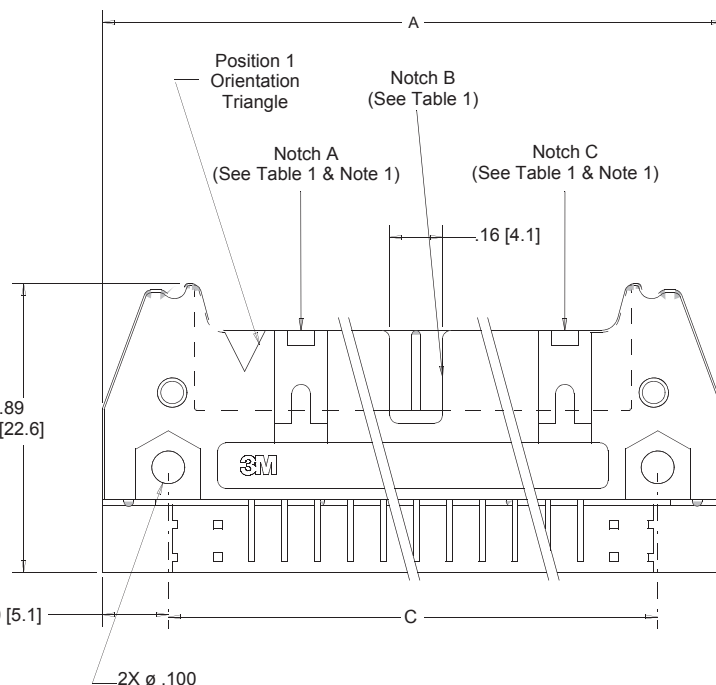
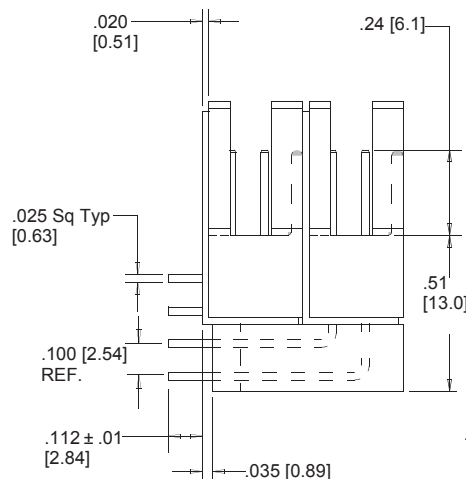
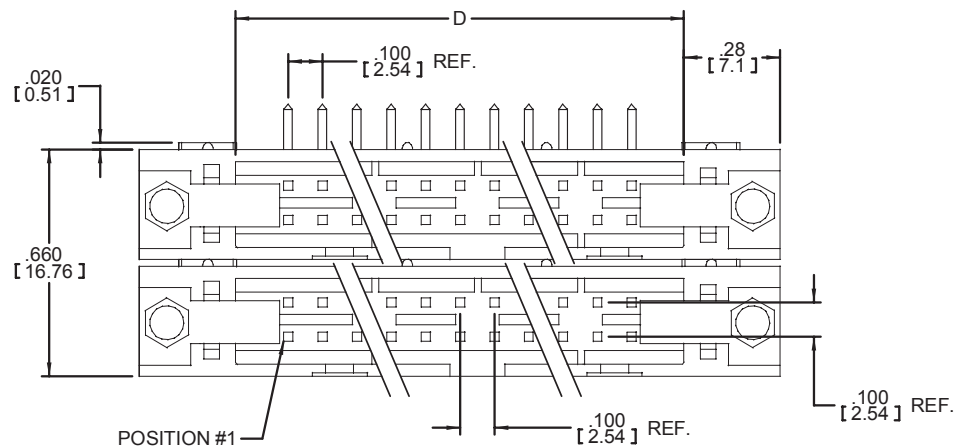
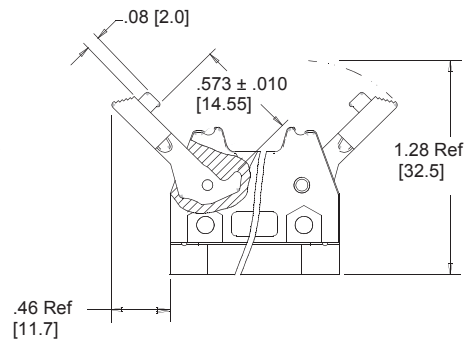
-L00X  
Header without Latch Ejectors



-L20X  
Header with Short Ejector/Latch  
for 3M Sockets without Strain Relief



-L30X  
Header with Long Ejector/Latch  
for 3M Sockets with Strain Relief



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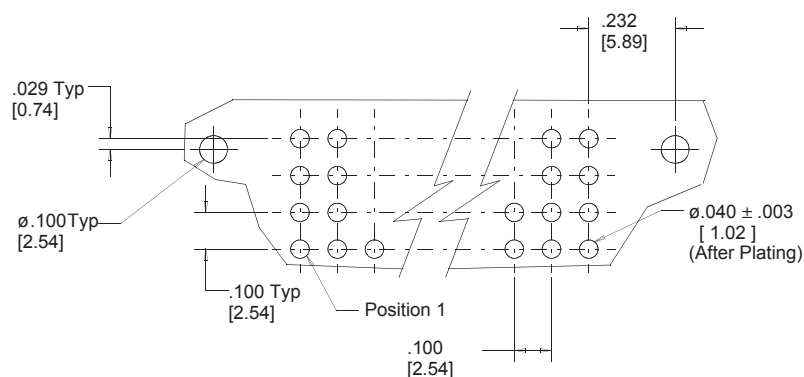
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# 3M™ Four-Wall Condo Header

.100" × .100" Right Angle

3000 Series

| Table 1      |                |              |               |             |                    |
|--------------|----------------|--------------|---------------|-------------|--------------------|
| Pin Quantity | 3M Part Number | Dimensions   |               |             | Polarizing Notches |
|              |                | A            | C             | D           |                    |
| 20           | 3793           | 1.26 (32.1)  | 0.865 (21.97) | 0.71 (18.0) | BC                 |
| 28           | 3314           | 1.46 (37.2)  | 1.065 (27.05) | 0.91 (23.1) | BC                 |
| 32           | 3408           | 1.56 (39.7)  | 1.165 (29.59) | 1.01 (25.6) | ABC                |
| 40           | 3428           | 1.76 (44.8)  | 1.365 (34.67) | 1.21 (30.7) | ABC                |
| 48           | 3627           | 1.96 (49.8)  | 1.565 (39.75) | 1.41 (35.8) | ABC                |
| 52           | 3429           | 2.06 (52.4)  | 1.665 (42.29) | 1.51 (38.3) | ABC                |
| 60           | 3440           | 2.26 (57.4)  | 1.865 (47.37) | 1.71 (43.4) | ABC                |
| 68           | 3431           | 2.46 (62.6)  | 2.065 (52.45) | 1.91 (48.5) | ABC                |
| 80           | 3432           | 2.76 (70.2)  | 2.365 (60.07) | 2.21 (56.1) | ABC                |
| 100          | 3433           | 3.26 (82.9)  | 2.865 (72.77) | 2.71 (68.8) | ABC                |
| 120          | 3372           | 3.76 (95.6)  | 3.365 (85.47) | 3.21 (81.5) | ABC                |
| 128          | 3764           | 3.96 (100.7) | 3.565 (90.55) | 3.41 (86.6) | ABC                |



Recommended Hole Pattern

**Notes:**

1. Notches A & C will accommodate 3M Polarizing Key (3M Part Number 3518 or N3518).
2. 112 [2.84] tail length suitable for .062 [1.57] thick pc board.
3. Contact your 3M sales representative for custom requirements.
4. Use of snap-in style latch/ejectors in either short (X3XXX-L502XX) or X3XXX-L602XX styles, installed or shipped separately (-5 & -6 snap-in latches are dimensionally and functionally equivalent to -2 & -3 roll pin latches)
5. Mounting hardware: From solder side of pc board use #4-24 thread cutting screw (3M Part 3341-5) and .116 dia. mounting hole. See Illustrations on page 4.

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

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

| Inch (mm)              |      |       |        |
|------------------------|------|-------|--------|
| Tolerance Unless Noted |      |       |        |
|                        | .0   | .00   | .000   |
| Inch                   | ± .1 | ± .01 | ± .005 |

[ ] Dimensions for Reference only

## Ordering Information

### X3XXX - LX02XX

N = High Temp Black (PCT) (RB Plating Req'd)  
Blank = Std. Temp Gray (PBT) (Blank or UB Pltng. Req'd.)

RB = 30 μ" [0.76 μm] Gold with Matte Tin Tails (App. E1 & C1 Apply)  
Blank or UB = 30 μ" [0.76 μm] Gold with Tin Lead Tails (App. E3 & C2 Apply)

Latch/Ejector System  
0 = No Latch/Ejector Installed  
2 = Short, Roll Pin Latch/Ejectors  
3 = Long, Roll Pin Latch/Ejectors

3M Part Number

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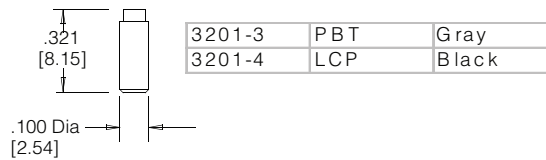
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3000 Series

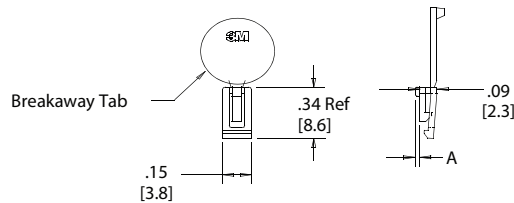
## Polarizing Post



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

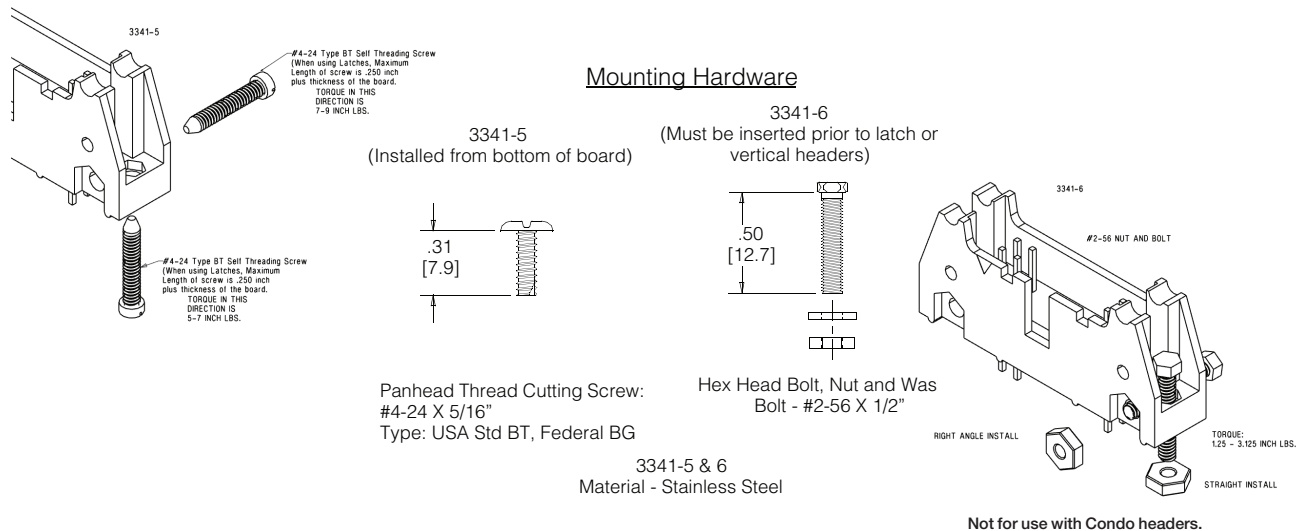
## Polarizing Keys

|       |     |       | 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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**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

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