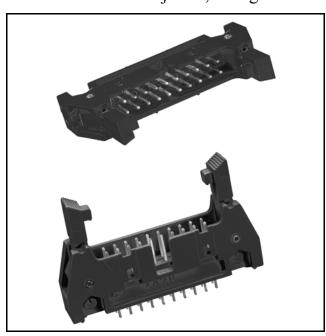
.100" × .100" Latch/Ejector, Straight and Right Angle

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: August 2, 2005

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# **Physical**

Insulator

Material: Glass Filled Polyester (PCT)

Flammability: UL 94V-0

Color: Black

Contact

Material: Copper Alloy

**Plating** 

Underplating:  $100 \mu''$  [  $2.54 \mu m$  ] Nickel - Overall

Wiping Area:  $30 \mu'' [0.76 \mu m]$  Gold

Solder Tails:  $200 \mu''$  [  $5.08 \mu m$  ] 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

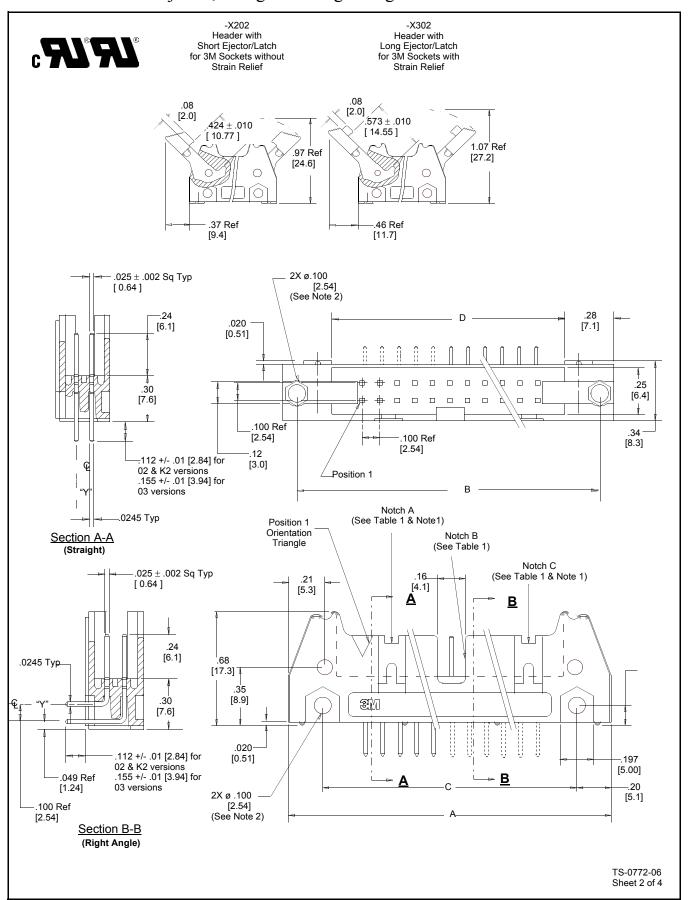
**Process Rating:** Maximum 260°C, single pass, (profile per J-STD-020C)

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

\*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 prolybromianted 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" Latch/Ejector, Straight and Right Angle



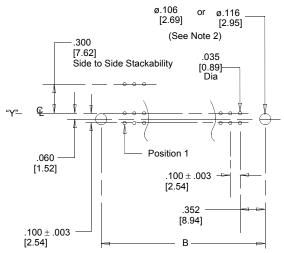
# .100" × .100" Latch/Ejector, Straight and Right Angle

	Table 1						
Pin Quantity	3M Part Number	Dimensions				Polarization	
		A	В	C	D	Notches Provided	
10	3793	1.26 [32.1]	1.105 [28.07]	.865 [21.97]	.71 [18.0]	ВС	
14	3314	1.46 [37.2]	1.305 [33.15]	1.065 [27.05]	.91 [23.1]	ВС	
16	3408	1.56 [39.7]	1.405 [35.69]	1.165 [29.59]	1.01 [25.6]	ABC	
20	3428	1.76 [44.8]	1.605 [40.77]	1.365 [34.67]	1.21 [30.7]	ABC	
24	3627	1.96 [49.8]	1.805 [45.85]	1.565 [39.75]	1.41 [35.8]	ABC	
26	3429	2.06 [52.4]	1.905 [48.39]	1.665 [42.29]	1.51 [38.3]	ABC	
30	3440	2.26 [57.4]	2.105 [53.47]	1.865 [47.37]	1.71 43.43]	ABC	
34	3431	2.46 [62.6]	2.305 [58.55]	2.065 [52.45]	1.91 [48.5]	ABC	
40	3432	2.76 [70.2]	2.605 [66.17]	2.365 [60.07]	2.21 [56.1]	ABC	
50	3433	3.26 [82.9]	3.105 [78.87]	2.865 [72.77]	2.71 [68.8]	ABC	
60	3372	3.76 [95.6]	3.605 [91.57]	3.365 [85.47]	3.21 [81.5]	ABC	
64	3764	3.96 [100.7]	3.805 [96.65]	3.565 [90.55]	3.41 [86.6]	ABC	

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

or ø.116

ø.106





## [2.95] [2.69] (See Note 2) [10.4] Max to Edge of PCB .035 for Daisy Chain [0.89]Dia Position 1 .029 [0.74] .100 ± .003 [2.54] $.100 \pm .003$ 232 [2.54] [5.89]С

# Recommended Mounting Hole Pattern (Right Angle)

#### Notes:

- 1. Notches A & C will accomodate 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. See page 4 for kink position details (K2 version).
- 4. Contact tails .0245 [0.622] crowned wire with .0075 [0.191] corner radii & .028 [.072] diagonal.
- 5. Contact your 3M sales representative for custom requirements.

#### Ordering Information NXXXX-XXXXRB Tail 02 = for .062 [1.57] thick board Latch/Ejector System 03 = for .094 to .125 [2.39 to 3.18] thick board 0 = No Latch/Ejector installed 3M Part Number K2 = kinked for .062 [1.57] thick board 2 = Short Roll Pin Latch/Ejectors (See Table 1) (3M Part # N3505-2) 3 = Long Roll Pin Latch/Ejectors Pin Configuration (3M Part # N3505-3) 5 = Right Angle 6 = Straight TS-0772-06 Sheet 3 of 4

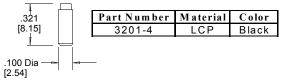
## **Part Customization**

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.

- Use of snap-in style latch/ejectors in either short (N3XXX-X502) or long (N3XXX-X602) styles, installed or shipped separately
- Selective pin removal (ATA or other compatability)

# Polarizing Post



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

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

3341-5 (Installed from bottom of board)



3341-6 (Right angle product only)



Panhead Thread Cutting Screw: #4-24 X 5/16"

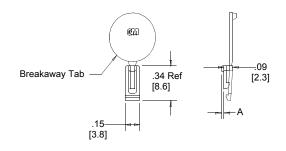
Type: USA Std BT, Federal BG

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

3341-5 & 6 Material - Stainless Steel

### Polarizing Keys

Part Number	Material	Color	Dim A
N3518	LCP	Black	0.02



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

TS-0772-06 Sheet 4 of 4

800-225-5373

### **Important Notice**

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