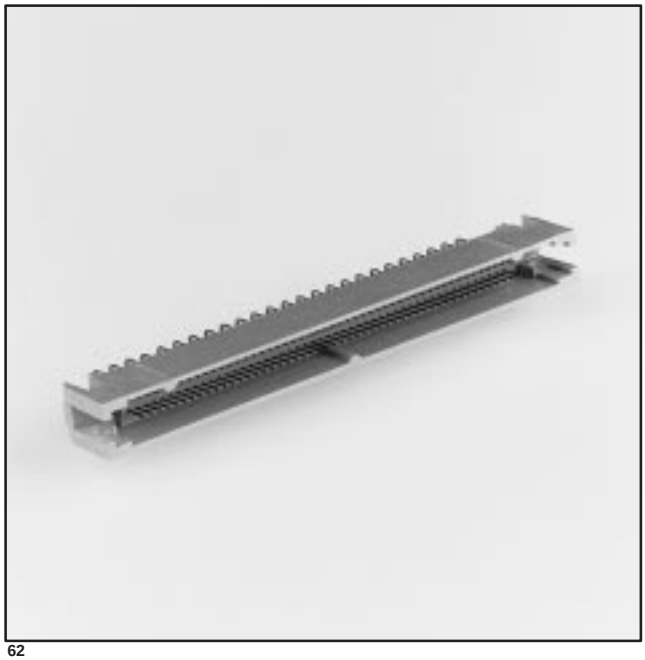
# .050″ × .100″ Tripolarized, Latch/Ejector Header

Right Angle, 4 Wall, 4 Rows of Solder Tails 810 Series



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Date Issued: May 28, 1997 Sheet 1 of 3

## Physical

| | |
|---|---|
| **Insulation** | |
| Material: | High Temperature Plastic (LCP) |
| Flammability: | UL 94V-0 |
| Color: | Ivory (Natural) |
| Marking: | 3M Logo, Part Number Identification and Orientation Triangle |
| **Contact** | |
| Material: | Copper Alloy |
| Plating | |
| Underplate: | 100 µ″ [ 2.54 µm ] Nickel — QQ-N-290, Class 2 |
| Wiping Area: | 30 µ″ [ 0.76 µm ] Gold — MIL-G-45204, Type II, Grade C |
| Solder Tails: | 100 µ″ [ 2.54 µm ] 90/10 Tin Lead |

## Electrical

| | |
|---|---|
| **Current Rating:** | 0.5 A |
| **Insulation Resistance:** | $> 1 \times 10^9$ Ω at 500 Vdc |
| **Withstanding Voltage:** | 500 Vrms at Sea Level |

## Environmental

| | |
|---|---|
| **Temperature Rating:** | –55°C to +105°C |
| **Process Rating:** | 250°C @ 90 seconds |

UL File No.: E68080

**3M Electronic Products Division**
6801 River Place Blvd.
Austin, TX 78726-9000

For technical, sales or ordering information call
**800-225-5373**

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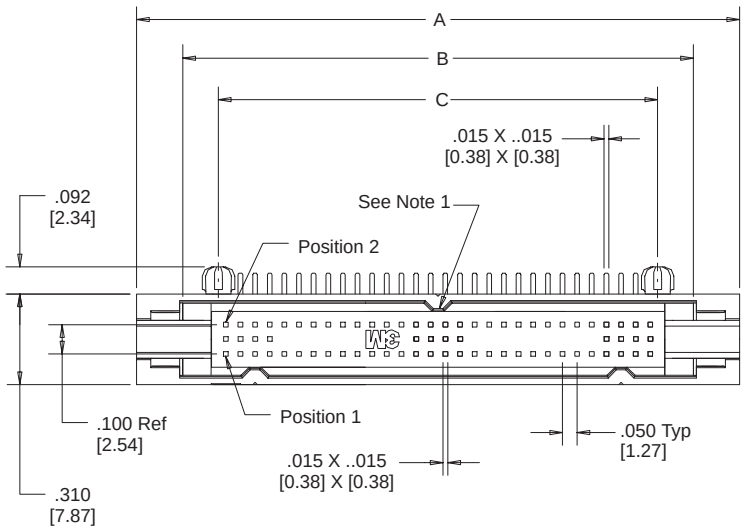
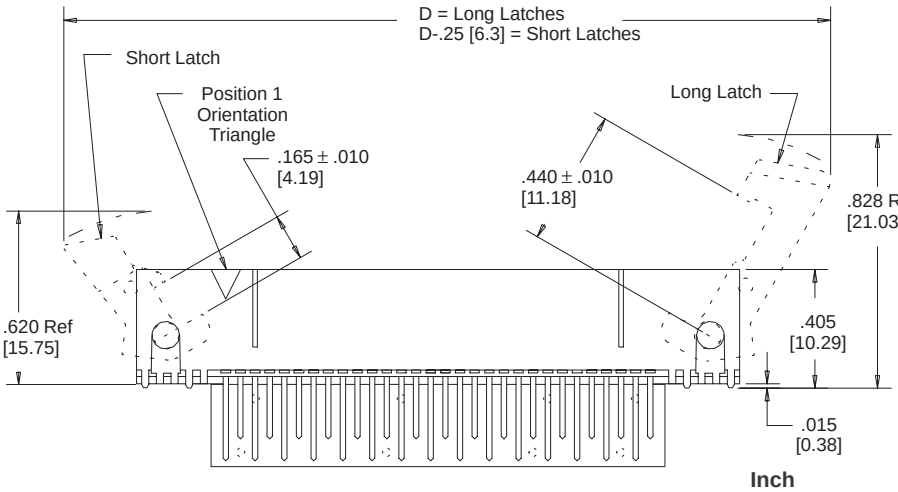
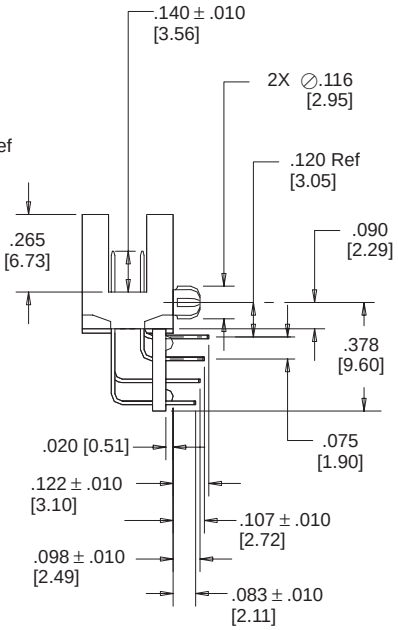



| Table 1 | | | | |
|---|---|---|---|---|
| Contact Quantity | Dimensions | | | |
| | A | B | C | D Ref |
| 020 | 1.060 [26.92] | .710 [18.03] | .500 [12.70] | 1.92 [48.8] |
| 026 | 1.210 [30.73] | .860 [21.84] | .650 [16.51] | 2.07 [52.6] |
| 036 | 1.460 [37.08] | 1.110 [28.19] | .900 [22.86] | 2.32 [58.9] |
| 040 | 1.560 [39.62] | 1.210 [30.73] | 1.000 [25.40] | 2.42 [61.5] |
| 050 | 1.810 [45.97] | 1.480 [37.08] | 1.250 [31.75] | 2.67 [67.8] |
| 060 | 2.060 [52.32] | 1.710 [43.43] | 1.500 [38.10] | 2.92 [74.2] |
| 068 | 2.260 [57.04] | 1.910 [48.51] | 1.700 [43.18] | 3.12 [79.2] |
| 080 | 2.560 [65.02] | 2.210 [56.13] | 2.000 [50.80] | 3.42 [86.9] |
| 100 | 3.060 [77.72] | 2.710 [68.83] | 2.500 [63.50] | 3.92 [99.6] |




**Inch**
[mm]

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

[ ] Dimensions for Reference only

Notes:
1. This polarization bump does not exist on the 20 position header.
2. Recommended to be mated to the .050″ X .100″ 82XXX Series Wiremount Socket.

## Ordering Information

**Header**

**81XXX–MX0203**

- Contact Quantity (See Table 1)
- Ejector/Latch System:
  0 = None
  1 = Short (Packaged Separately)
  2 = Long (Packaged Separately)
  5 = Short (Installed)
  6 = Long (Installed)

**Ejector Latch**

**3505-28** (Long)
**3505-29** (Short)



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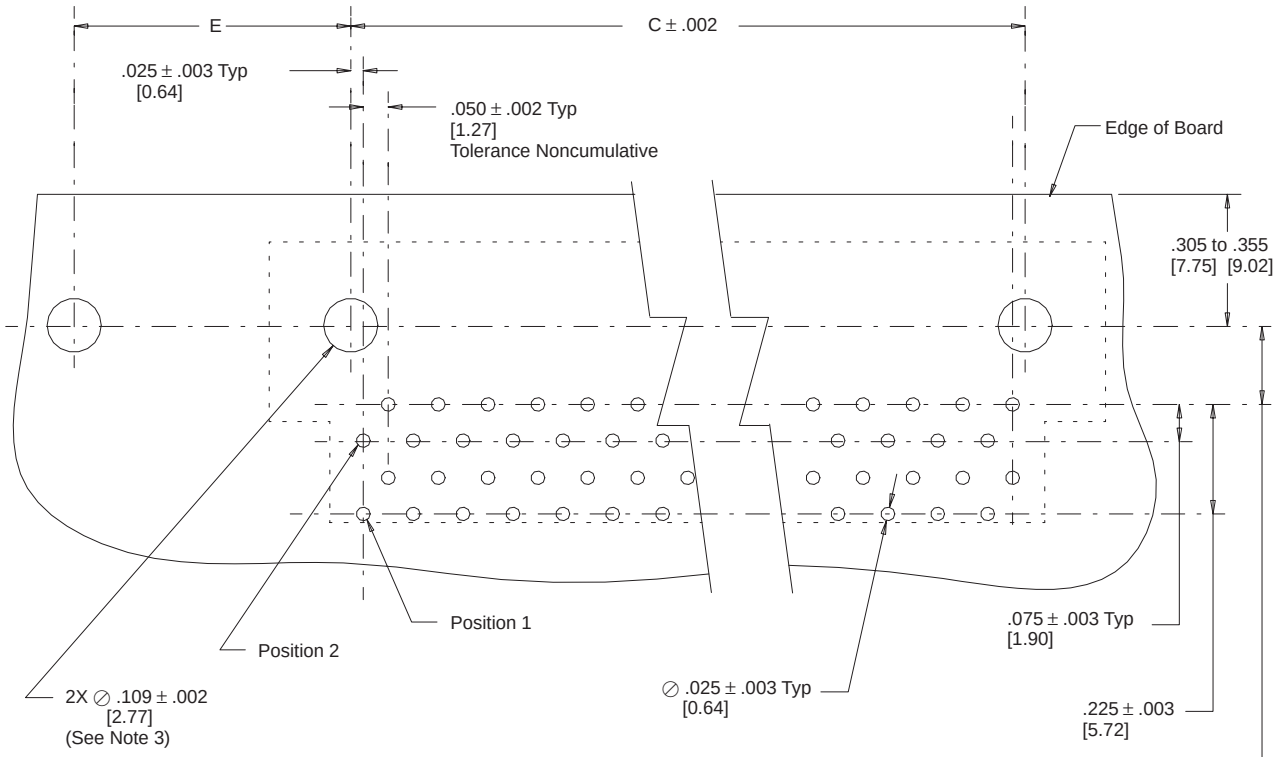
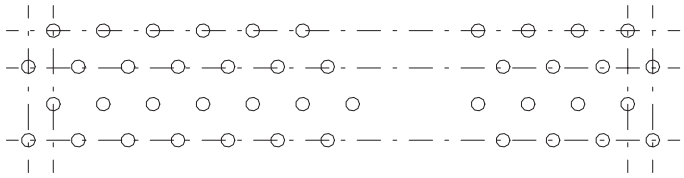
| Table 2 | |
|---|---|
| **Ejector Latches** | **Dimension E Min** |
| No | .575 [14.6] |
| Short | .885 [22.48] |
| Long | 1.010 [25.6] |

Recommended Mounting Hole Pattern
for Even Number of Contacts/Row
(Shown for mounting side of PC Board)




Recommended Mounting Hole Pattern
for Odd Number of Contacts/Row
(Shown for mounting side of PC Board)



Notes:
1. In order to facilitate flow soldering, it is recommended that ejector latches be installed after the soldering process.

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