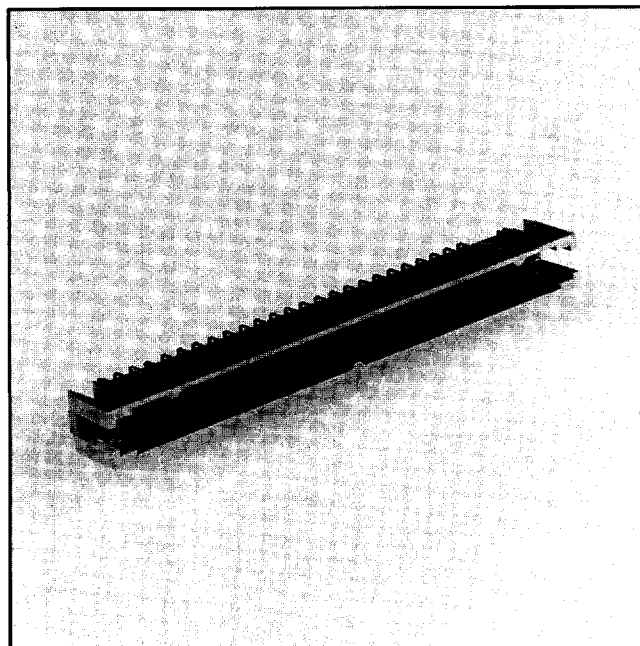


.050" × .100" Tripolarized, Latch/Ejector Header

Right Angle, 4 Wall, 4 Rows of Solder Tails

810 Series



- Tripolarization to mini socket
- 50 mil × 100 mil doubles board density
- Nine sizes (20–100 position)
- Latch and eject feature
- High temperature dielectric
- Metal clip retention option

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Sheet 1 of 3

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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 μ m] Nickel — QQ-N-290, Class 2
Wiping Area: 30 μ " [0.76 μ m] Gold — MIL-G-45204, Type II, Grade C
Solder Tails: 100 μ " [2.54 μ m] 90/10 Tin Lead

Electrical

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

Environmental

Temperature Rating: -55°C to $+105^\circ\text{C}$
Process Rating: 250°C @ 90 seconds

UL File No.: E68080

3M Electronic Products Division D 19F ■ 9035312 0004369 T61 ■

<http://www.3M.com/interconnects/>

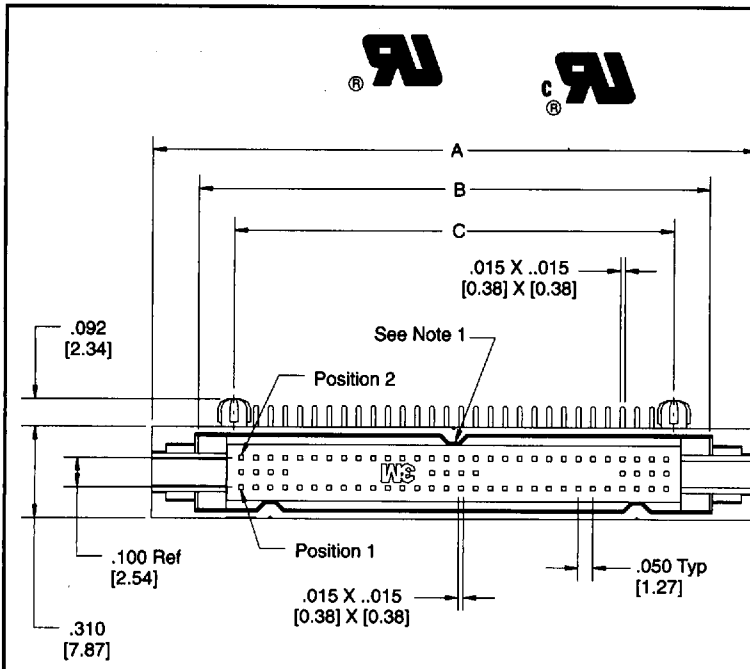
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For technical, sales or ordering information call
800-225-5373

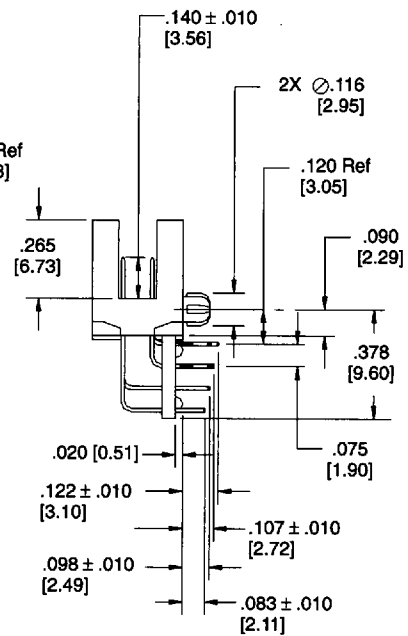
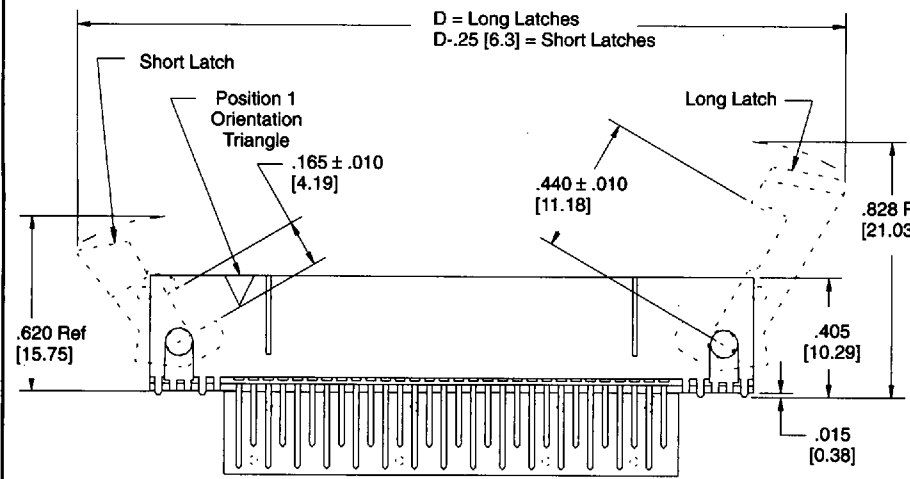
.050" × .100" Tripolarized, Latch/Ejector Header

Right Angle, 4 Wall, 4 Rows of Solder Tails

810 Series



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]



Tolerance Unless Noted			
Inch	.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

Ejector Latch
3505-28 (Long)
3505-29 (Short)

Contact Quantity
(See Table 1)

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

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Sheet 2 of 3

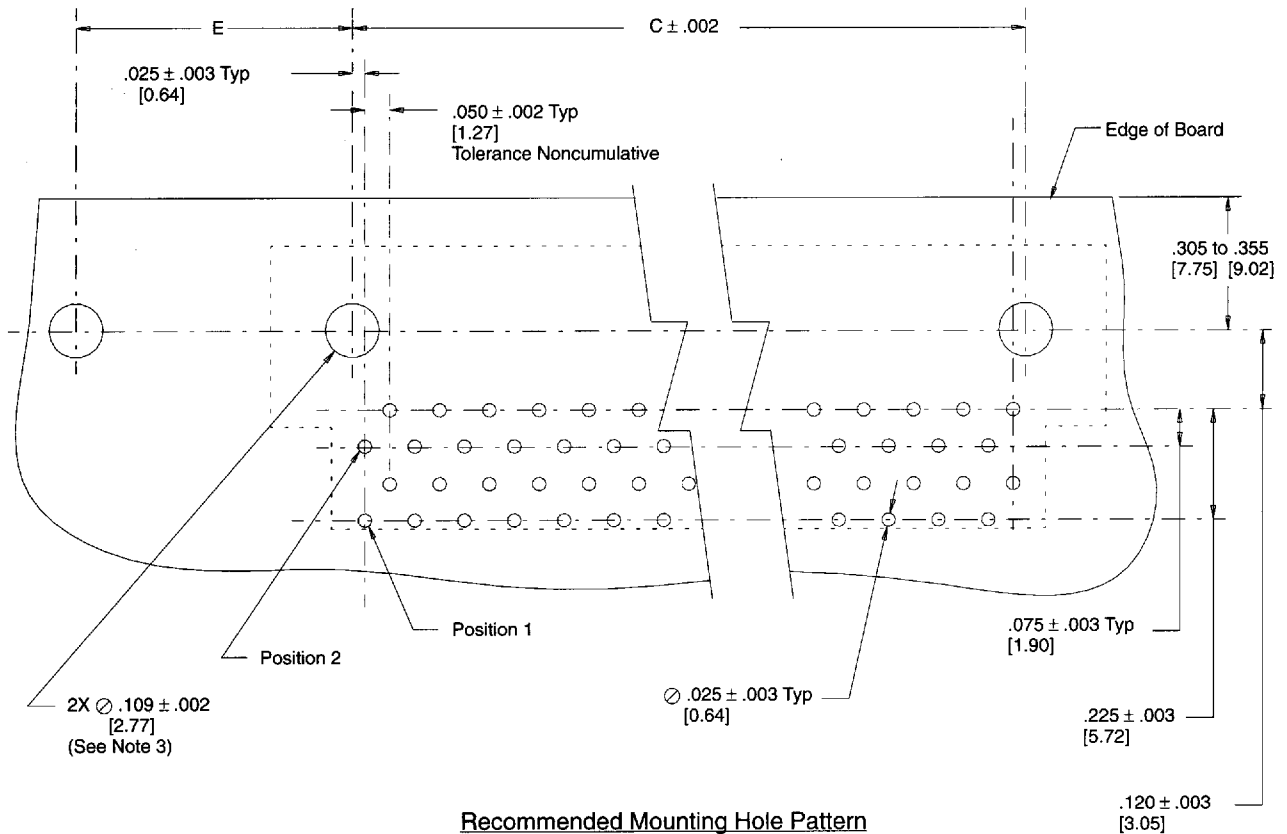
.050" × .100" Tripolarized, Latch/Ejector Header

Right Angle, 4 Wall, 4 Rows of Solder Tails

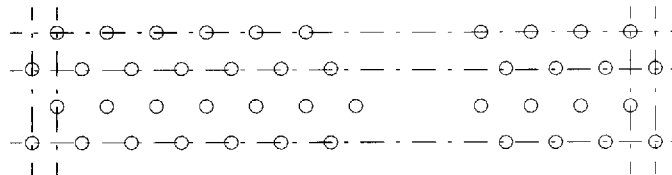
810 Series

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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Sheet 3 of 3