# 3M<sup>™</sup> 4-Wall, Tripolarized Header

.050" × .100" Latch/Ejector, PTH & SMT Straight, PTH Right Angle

810 Series



- Tripolarization to mating socket
- 50 mil × 100 mil halves the connector length
- Latch and eject for rugged high performance applications
- Available for thru hole or surface mount attachment
- High temperature plastic
- Four-wall shroud provides contact protection
- Contacts: 20, 26, 36, 40, 50, 60, 68, 80 and 100
- RoHS\* compliant version available (RB plating suffix)

Date Modified: September 2, 2005

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## **Physical**

### Insulation

Material: High Temperature Plastic (LCP)

Flammability: UL 94V-0

Color: Black (RoHS compliant) or Natural

Contact

Material: Copper Alloy

**Plating** 

Underplating:  $100 \mu''$  [  $2.54 \mu m$  ] Nickel Wiping Area:  $30 \mu'' [0.76 \mu m]$  Gold

 $300~\mu^{\prime\prime}$  [7.6  $\mu m$  ] Matte Tin (RoHS compliant) or Tin-Lead (see ordering information) Solder Tails:

Terminal Finish Indicator: e3 (ref JESD97)

Marking: 3M Logo, Part Number and Orientation Triangle

## **Electrical**

Current Rating: 0.5 A

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

## **Environmental**

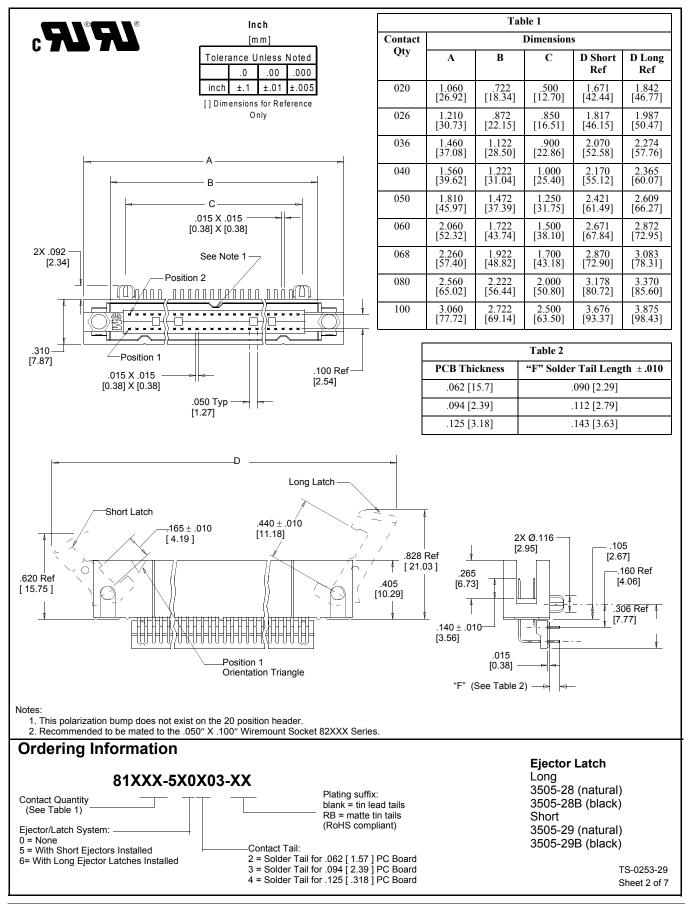
**Temperature Rating:** -55°C to +105°C

Process Rating: Maximum 260°C (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, UL File No.: E68080 this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

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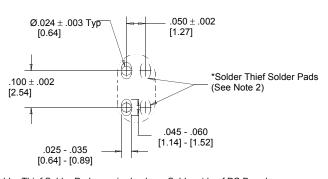
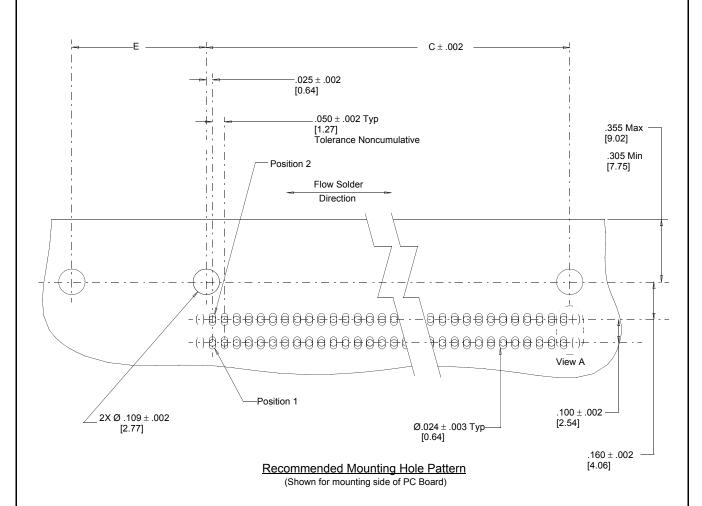


Table 3	
Ejector Latches	Dimension E Min
None	.575 [14.61]
Long	1.010 [25.65]
Short	.885 [22.48]

\*Solder Thief Solder Pads required only on Solder side of PC Board.

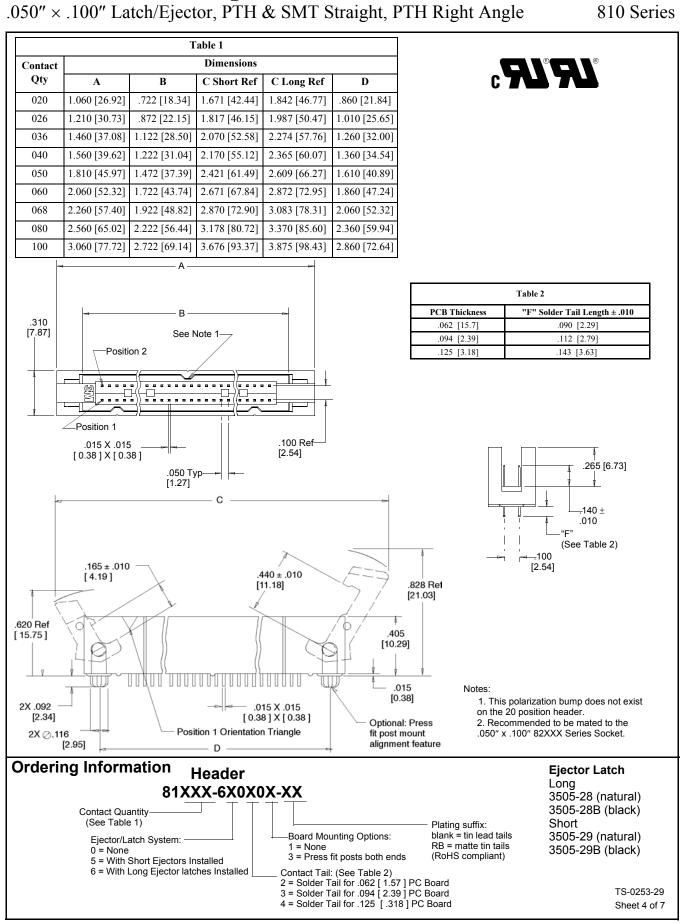
### View A

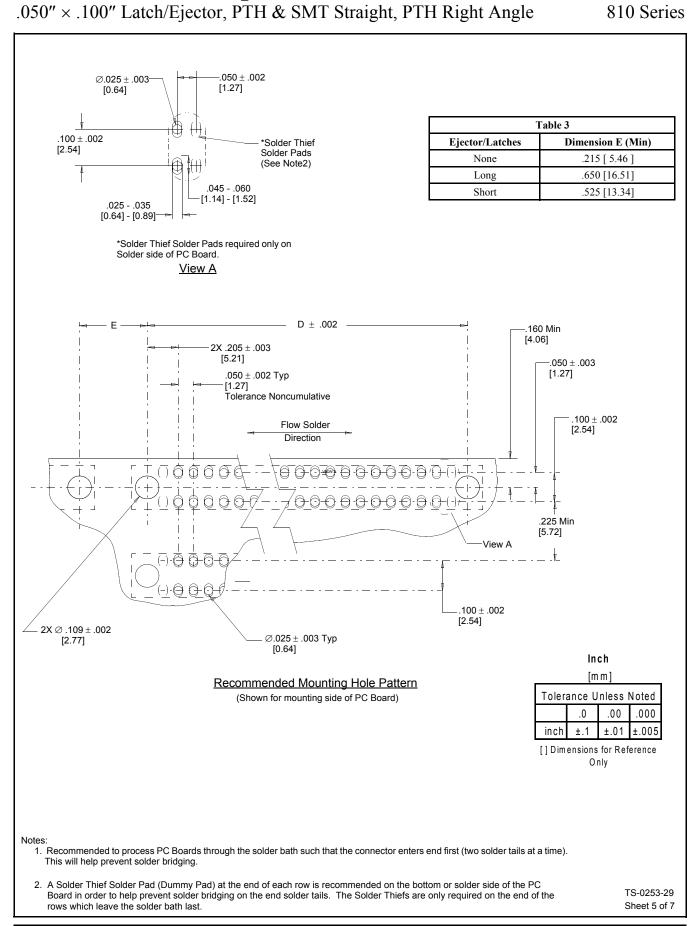


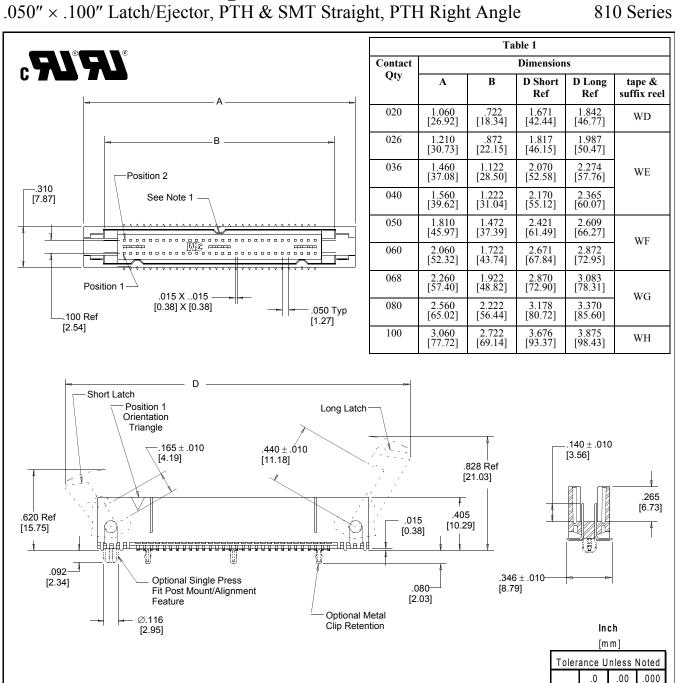
### Notes:

- 1. Recommended to process PC Boards through the solder bath such that the connector enters end first (two solder tails at a time). This will help prevent solder bridging.
- 2. A Dummy or Solder Thief Solder Pad at the end of each row is recommended on the bottom or solder side of the PC. Board in order to help prevent solder bridging on the end solder tails. The solder thiefs are only required on the end of the rows which leave the solder bath last.
- 3. In order to facilitate flow soldering. It is recommended that ejector latches be installed after the soldering process.

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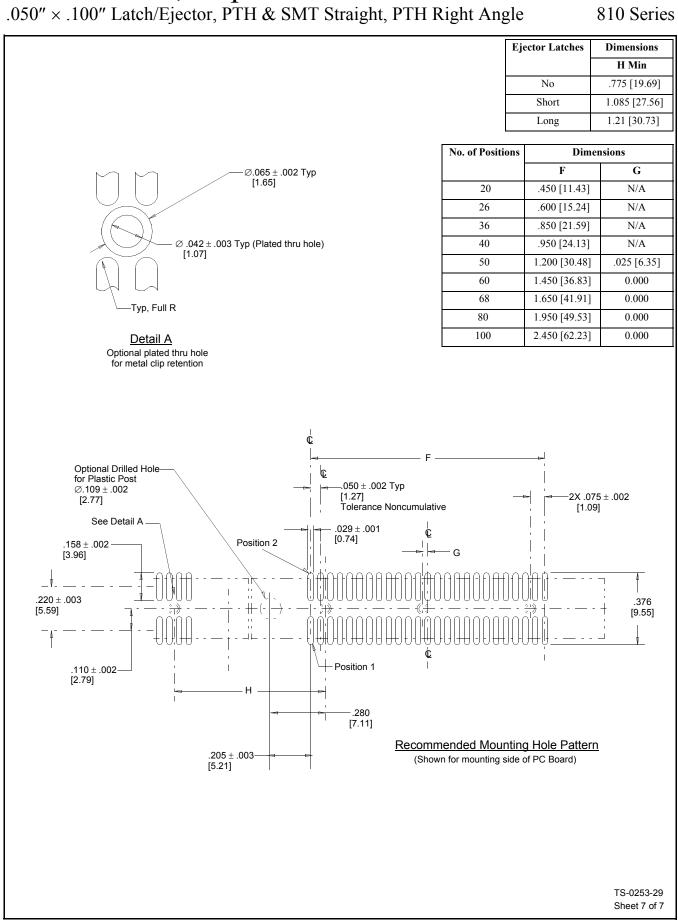


- 1. This polarization bump does not exist on the 20 position header.
- 2. Recommended to be mated to the .050" X .100" 82XXX Series Wiremount Socket.

#### Ordering Information Header **Ejector Latch** Long 3505-28 (natural) 81XXX-6X0C0X-XX-XX 3505-28B (black) Short 3505-29 (natural) Ejector/Latch System: Packaging Options: Contact Quantity 0 = None3505-29B (black) Blank = Trays (See Table 1) 5 = With Short Ejectors Installed WX = Tape & Reel Package 6 = With Long Ejector Latches Installed (see table) **Board Mounting Options:** 1 = None Plating suffix: 4 = Press Fit Post Mount at Position 1 end blank = tin lead tails 7 = Metal retention clips RB = matte tin tails TS-0253-98 8 = #1 end press fit post & metal retention clips (RoHS compliant) Sheet 6 of 7

.005

[] Dimensions for Reference



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