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

.050" × .100" Latch/Ejector, Right Angle, 4 Rows of Solder Tails

810 Series



- · Tripolarization to mating socket
- 50 mil × 100 mil halves the connector length
- Latch and eject for rugged high performance applications
- 4 row tail design
- High temperature plastic
- · Four-wall shroud provides contact protection
- Contacts: 20, 26, 36, 40, 50, 60, 68, 80 and 100
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnector.com for compliance information

Date Modified: June 15, 2012

TS-0334-B Sheet 1 of 3

## **Physical**

**Insulator:** 

Material: High Temperature Plastic (LCP)

Flammability: UL 94V-0

Color: Black (RB Plating only) or Natural

**Contact:** 

Material: Copper Alloy

**Plating:** 

Underplating: 100 µ" [2.54 mm] Nickel Wiping Area: 30 µ" [0.76 mm] Gold Solder Tails: See Ordering Information

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  $500 V_{DC}$ **Withstanding Voltage:**  $500 V_{RMS}$  at Sea Level

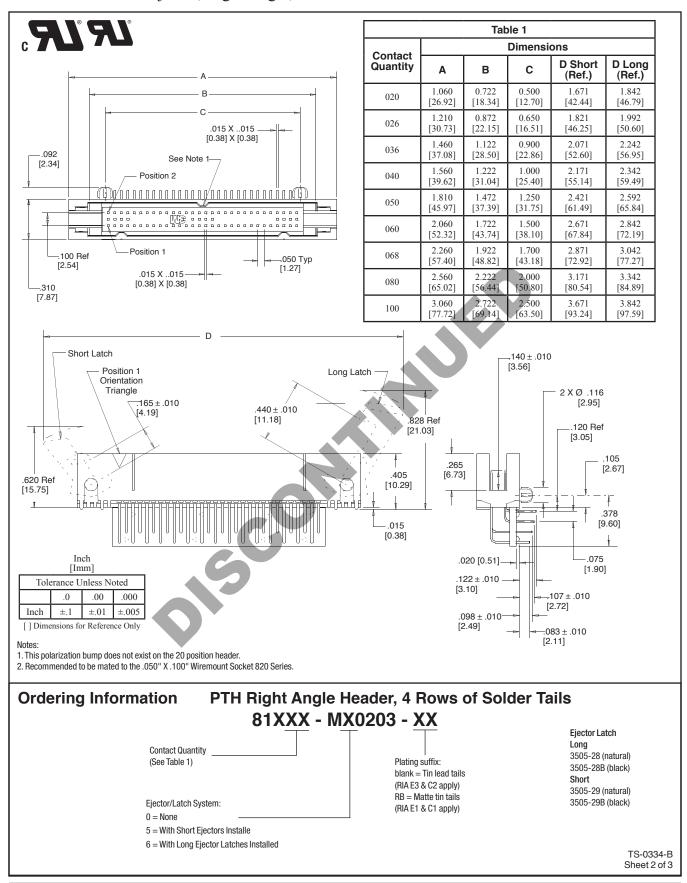
### **Environmental**

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

**Process Rating:** Maximum 260°C (Profile per J-STD-020C)

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

UL File No.: E68080



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Table 2 **Eiector Latches Dimension E Min** None .575 [14.61] 1.010 [25.65] Long **Recommended Mounting Hole Pattern** Short .885 [22.48] for Even Number of Contacts/Rows (shown for mounting side of PC Baord) C ± .002 .025 ± .003 Typ [0.64]  $.050 \pm .002$  Typ Edge of Board [1.27] Tolerance Noncumulative .305 to .355 [7.75] [9.02] Position 1 .075 ± .003 Typ Position 2 [1.90] Ø .025 ± .003 Typ 2X Ø .109 ± .002  $.225 \pm .003$ [0.64][2.77] [5.72](See Note 3)  $.120 \pm .003$ [3.05] Recommended Mounting Hole Pattern for Odd Number of Contacts/Row (Shown for mounting side of PC Board) TS-0334-B 1. In order to facilitate flow soldering, it is recommended that ejector latches be installed after the soldering process. Sheet 3 of 3



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