.050” × .100” Tripolarized, Latch/Ejector Header
Right Angle, 4 Wall, 2 Rows of Solder Tails

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 × 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 – LCP

IMPORTANT NOTICE TO PURCHASER
ALL STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED ON TESTS WE BELIEVE TO BE RELIABLE, BUT THE ACCURACY OR COMPLETENESS THEREOF IS NOT GUARANTEED, AND THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED:
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Date Issued: May 28, 1997

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
.050" × .100" Tripolarized, Latch/Ejector Header
Right Angle, 4 Wall, 2 Rows of Solder Tails

810 Series

Table 1

<table>
<thead>
<tr>
<th>Contact Quantity</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>036</td>
<td>1.46 [37.08]</td>
</tr>
<tr>
<td>050</td>
<td>1.81 [45.97]</td>
</tr>
<tr>
<td>060</td>
<td>2.06 [52.32]</td>
</tr>
<tr>
<td>080</td>
<td>2.56 [65.02]</td>
</tr>
<tr>
<td>100</td>
<td>3.06 [77.72]</td>
</tr>
</tbody>
</table>

Table 2

<table>
<thead>
<tr>
<th>PCB Thickness</th>
<th>“F” Solder Tail Length ±.010</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>.062 [15.7]</td>
</tr>
<tr>
<td></td>
<td>.094 [2.39]</td>
</tr>
<tr>
<td></td>
<td>.125 [3.18]</td>
</tr>
</tbody>
</table>

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

Ordering Information

81XXX-5X0X03

Ejector/Latch System: 2 = Solder Tail for .062 [1.57] PC Board
0 = None
3 = Solder Tail for .094 [2.39] PC Board
4 = Solder Tail for .125 [3.18] PC Board
2 = With Ejector Latches Packaged Separately (For Strain Relief and or Non-Strain Relief Socket Versions)
5 = With Short Ejector Latches Installed
6 = With Ejector Latches Installed

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

TS-02S3-23
Sheet 2 of 3
.050” × .100” Tripolarized, Latch/Ejector Header
Right Angle, 4 Wall, 2 Rows of Solder Tails
810 Series

### Table 3

<table>
<thead>
<tr>
<th>Ejector Latches</th>
<th>Dimension E Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>.575 [14.61]</td>
</tr>
<tr>
<td>Long</td>
<td>1.010 [25.65]</td>
</tr>
<tr>
<td>Short</td>
<td>.885 [22.48]</td>
</tr>
</tbody>
</table>

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

**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 thieves 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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