.100” x .100” Low Profile Header
Right Angle, 4 Wall

Physical

**Insulation**
- Material: Glass Filled Polyester (PBT)
- Flammability: UL 94V-0
- Color: Gray
- Marking: 3M Logo, and Orientation Triangle

**Contact**
- Material: Copper Alloy
- Plating
  - Underplate: 100 µ” [2.54 µm] Nickel — QQ-N-290A, Class 2
  - Wiping Area: Gold — MIL-G-45204, Type II, Grade C
  - Solder Tails: 200 µ” [5.08 µm] 60/40 Tin Lead — MIL-P-81728
  - Wrap Tails: Gold Flash

Electrical

**Current Rating:** 2 A
**Insulation Resistance:** $>1 \times 10^9$ Ω at 500 Vdc
**Withstanding Voltage:** 1000 Vrms at Sea Level

Environmental

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

UL File No.: E68080
CSA File No.: LR 40971

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

For technical, sales or ordering information call
800-225-5373
# .100” x .100” Low Profile Header
Right Angle, 4 Wall

## Table 1

<table>
<thead>
<tr>
<th>Pin Quantity</th>
<th>Dimensions</th>
<th>Polarizing Notches</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>10</td>
<td>0.79 [20.0]</td>
<td>0.70 [17.8]</td>
</tr>
<tr>
<td>14</td>
<td>0.99 [25.1]</td>
<td>0.90 [22.8]</td>
</tr>
<tr>
<td>16</td>
<td>1.09 [27.6]</td>
<td>1.00 [25.4]</td>
</tr>
<tr>
<td>20</td>
<td>1.29 [32.7]</td>
<td>1.20 [30.4]</td>
</tr>
<tr>
<td>24</td>
<td>1.49 [37.8]</td>
<td>1.40 [35.5]</td>
</tr>
<tr>
<td>26</td>
<td>1.59 [40.3]</td>
<td>1.50 [38.1]</td>
</tr>
<tr>
<td>30</td>
<td>1.79 [45.4]</td>
<td>1.70 [43.2]</td>
</tr>
<tr>
<td>34</td>
<td>1.99 [50.5]</td>
<td>1.90 [48.2]</td>
</tr>
<tr>
<td>40</td>
<td>2.29 [58.1]</td>
<td>2.20 [55.9]</td>
</tr>
<tr>
<td>50</td>
<td>2.79 [70.8]</td>
<td>2.70 [68.6]</td>
</tr>
<tr>
<td>60</td>
<td>3.29 [83.5]</td>
<td>3.20 [81.3]</td>
</tr>
<tr>
<td>64</td>
<td>3.49 [88.6]</td>
<td>3.40 [86.4]</td>
</tr>
</tbody>
</table>

## Notes:
1. Notches “A” and “C” will accommodate 3M Polarizing Keys. (Part number 3518 or M3518)
2. The recommended PCB hole size for the kinked tail positions on the .112” solder tail connector is .035” ± .002.

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**TS-0357-12**
Sheet 2 of 3
.100” x .100” Low Profile Header
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<table>
<thead>
<tr>
<th>3M Part No. Suffix</th>
<th>Tail</th>
<th>Dimension E</th>
<th>Pin Cross Section</th>
<th>Dimension F</th>
<th>Diagonals</th>
<th>Corner Radii</th>
<th>Dim G ± .003</th>
</tr>
</thead>
<tbody>
<tr>
<td>−50X2</td>
<td>X2</td>
<td>.112 [2.84]</td>
<td>0.0245 ± .0005</td>
<td>0.028 ± .001</td>
<td>0.0075 Ref</td>
<td>.035 [0.89]</td>
<td>(See Note 2)</td>
</tr>
<tr>
<td>−5003</td>
<td>03</td>
<td>.155 [3.94]</td>
<td>0.0245 ± .0005</td>
<td>0.028 ± .001</td>
<td>0.0075 Ref</td>
<td>.035 [0.89]</td>
<td></td>
</tr>
<tr>
<td>−5005</td>
<td>05</td>
<td>.61 Ref</td>
<td>0.0250 ± .002</td>
<td>0.035 ± .003</td>
<td>0.003 Max</td>
<td>.045 [1.14]</td>
<td></td>
</tr>
</tbody>
</table>

Pin Quantity:
(Tail 02=Solder Tails for .062 [1.57] Thick Board.
K2=Kinked Solder Tails for .062 [1.57] Thick Board.
Tail 03=Solder Tails for .094 to .125 [2.39 to 3.18] Thick Board.
Tail 05=Wrap Tails for up to 3 Levels of Wire Wrap.

Recommended Mounting Hole Pattern

Max Dim to Edge of PCB for Bussing

Position 1

Recommended Mounting Hole Pattern

Ordering Information

25XX-50XX XX

(Tail)

Mating Plating Thickness:
For Solder Tail Versions
UG = 15 μ" [0.38 μm]
UB = 30 μ" [0.76 μm]
For Wrap Tails Versions
EB = 30 μ" [0.76 μm]