.100” × .100” Latch/Ejector Header
4 Wall, Straight & Right Angle, High Temp Option

- Military (with 3M’s 3518 polarizing key) and centerbump polarization
- Optional ejector latches
- Mounting holes for securing header to board
- Solder tail and wrap tail options
- Optional polarizing posts
- Choice of rolled pin and snap-in latches
- High temperature option

Physical

Insulation
Material: Glass Filled Polyester (PBT)
Glass Filled Polyester (PCT — High Temp Option)
Flammability: UL 94V-0
Color: Gray, Standard
Beige (High Temp Option)
Marking: 3M Logo, Part Identification Number and Orientation Triangle

Contact
Material: Copper Alloy
Plating
Underplate: 100 μ" [ 2.54 μm ] Nickel — QQ-N-290, 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, Standard

Electrical

Current Rating: 1 A
Insulation Resistance: >1 × 10^9 Ω at 500 Vdc
Withstanding Voltage: 1000 Vrms at Sea Level

Environmental

Temperature Rating: −55°C to +105°C
High Temp Process Rating: Maximum 235°C, with 90 seconds over 215°C

UL File No.: E68080
.100” × .100” Latch/Ejector Header
4 Wall, Straight & Right Angle, High Temp Option

-X0XX
Header with No Ejector/Latch

-X2XX
Header with Short Ejector/Latch for 3M Sockets without Strain Relief

-X3XX
-X6XX
Header with Long Ejector/Latch for 3M Sockets with Strain Relief

-X4XX
Header with Ejector only

Note: This Ejector is a Nickel Plated Zinc Alloy Casting.
Table 1

<table>
<thead>
<tr>
<th>Pin Quantity</th>
<th>3M Part Number</th>
<th>Dimensions</th>
<th>Polarization Notches Provided</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>3314</td>
<td>1.46 [37.2]</td>
<td>1.305 [33.15]</td>
</tr>
<tr>
<td>20</td>
<td>3428</td>
<td>1.76 [44.8]</td>
<td>1.605 [40.77]</td>
</tr>
<tr>
<td>30</td>
<td>3440</td>
<td>2.26 [57.4]</td>
<td>2.105 [53.47]</td>
</tr>
<tr>
<td>34</td>
<td>3431</td>
<td>2.46 [62.6]</td>
<td>2.305 [58.55]</td>
</tr>
<tr>
<td>40</td>
<td>3432</td>
<td>2.76 [70.2]</td>
<td>2.605 [66.17]</td>
</tr>
<tr>
<td>50</td>
<td>3433</td>
<td>3.26 [82.9]</td>
<td>3.105 [78.87]</td>
</tr>
<tr>
<td>64</td>
<td>3764</td>
<td>3.96 [100.7]</td>
<td>3.805 [96.65]</td>
</tr>
</tbody>
</table>

Table 2

<table>
<thead>
<tr>
<th>3M Part Number Suffix</th>
<th>Contact Tail</th>
<th>Dimension E</th>
<th>Pin Cross Section</th>
<th>Corner Radii</th>
<th>Dimension G</th>
</tr>
</thead>
<tbody>
<tr>
<td>-5XX2</td>
<td>Solder Tail for .062 [1.57] Thick PC Board</td>
<td>.112 [2.84]</td>
<td>0.0245 ± .0005 [0.0062]</td>
<td>0.028 ± .001 [0.0071]</td>
<td>0.0075 Ref [0.191]</td>
</tr>
<tr>
<td>-6XX2</td>
<td>Solder Tail for .094 [2.39] to .125 [3.18] Thick PC Board</td>
<td>.155 [3.94]</td>
<td>0.0245 ± .0005 [0.0062]</td>
<td>0.028 ± .001 [0.0071]</td>
<td>0.0075 Ref [0.191]</td>
</tr>
<tr>
<td>-5X03</td>
<td>Wire Wrap Tail for up to 3 Levels of Wire Wrap</td>
<td>.61 Ref [15.5]</td>
<td>0.0250 ± .002 [0.00635]</td>
<td>0.035 ± .003 [0.0090]</td>
<td>0.003 Max [0.08]</td>
</tr>
<tr>
<td>-6X05</td>
<td>Wire Wrap Tail for up to 3 Levels of Wire Wrap</td>
<td>.61 Ref [15.5]</td>
<td>0.0250 ± .002 [0.00635]</td>
<td>0.035 ± .003 [0.0090]</td>
<td>0.003 Max [0.08]</td>
</tr>
</tbody>
</table>

Notes:
1. Notches A & C will accomodate 3M Polarizing Keys (3M Part #N3518).
2. Accepts Rear and Front mounting hardware:
   - Rear Entry: #4-24 thread cutting screw, 3M Part #3341-5, .116 [2.95] dia mounting hole
   - Front Entry: (Prior to installation of latch on Straight Versions) #2-56 bolt and nut, 3M Part #3341-6, .106 [2.69] dia mounting hole
3. The recommended PCB hole size for the kinked tail positions on the .112 solder tail connector is .035 ± .002.

CL"Y" .41 [10.4] Max to Edge of PCB for Daisy Chain

Recommended Mounting Hole Pattern

Recommended Mounting Hole Pattern

TS-0772-01
Sheet 3 of 4
### Ordering Information

#### 30 Microinches Gold Plated Product

<table>
<thead>
<tr>
<th>3M Part Number</th>
<th>Shroud and Pin Configuration</th>
<th>Latch/Ejector System</th>
<th>Tail</th>
</tr>
</thead>
<tbody>
<tr>
<td>XXXX-XXXXX</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Product Material:**
  - \(N\) = High Temp
  - Blank = Standard

- **3M Part Number**
  (See Table 1)

- **Plating Suffix:**
  - \(UG\) = 15 microinch Gold

- **Tail**
  - 02 = Solder Tail for .062 [1.57] Thick Board
  - K2 = Kinked Solder Tails for .062 [1.57]
  - 03 = Solder Tails for .094 to .125 [2.39 to 3.18]
  - 05 = Wrap Posts for up to 3 levels of Wire Wrap

#### 15 Microinches Gold Plated Product

<table>
<thead>
<tr>
<th>3M Part Number</th>
<th>Shroud and Pin Configuration</th>
<th>Latch/Ejector System</th>
<th>Tail</th>
</tr>
</thead>
<tbody>
<tr>
<td>XXXX-XXXXXUG</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Product Material:**
  - \(N\) = High Temp
  - Blank = Standard

- **3M Part Number**
  (See Table 1)

- **Plating Suffix:**
  - \(UG\) = 15 microinch Gold

- **Tail**
  - 02 = Solder Tail for .062 [1.57] Thick Board
  - K2 = Kinked Solder Tails for .062 [1.57]
  - 03 = Solder Tails for .094 to .125 [2.39 to 3.18]

* Roll pin Latch/Ejector available only on standard version.