3M™ Pak 100 4-Wall Header
.100” x .100” Latch/Ejector, Straight and Right Angle, High Temp Option 3000 Series

- 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
- High temperature option

Date Modified: May 30, 2003

TS-0772-03
Sheet 1 of 4

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)

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
Marking: 3M Logo, Part Identification Number and Orientation Triangle

Electrical

Current Rating: 1 A
Insulation Resistance: >1 × 10³ Ω at 500 V dc
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
3M™ Pak 100 4-Wall Header
.100" × .100" Latch/Ejector, Straight and Right Angle, High Temp Option 3000 Series

-X0XX
Header with No Ejector/Latch

-X5XX
Header with Short Ejector/Latch for 3M Sockets without Strain Relief

-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 A</th>
<th>Dimensions B</th>
<th>Dimensions C</th>
<th>Dimensions D</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>
<td>1.065 [27.05]</td>
<td>.91 [23.1]</td>
<td>B C</td>
</tr>
<tr>
<td>20</td>
<td>3428</td>
<td>1.76 [44.8]</td>
<td>1.605 [40.77]</td>
<td>1.365 [34.67]</td>
<td>1.21 [30.7]</td>
<td>A B C</td>
</tr>
<tr>
<td>30</td>
<td>3440</td>
<td>2.26 [57.4]</td>
<td>2.105 [53.47]</td>
<td>1.865 [47.37]</td>
<td>1.71 [43.43]</td>
<td>A B C</td>
</tr>
<tr>
<td>34</td>
<td>3431</td>
<td>2.46 [62.6]</td>
<td>2.305 [58.55]</td>
<td>2.065 [52.45]</td>
<td>1.91 [48.5]</td>
<td>A B C</td>
</tr>
<tr>
<td>40</td>
<td>3432</td>
<td>2.76 [70.2]</td>
<td>2.605 [66.17]</td>
<td>2.365 [60.07]</td>
<td>2.21 [56.1]</td>
<td>A B C</td>
</tr>
<tr>
<td>50</td>
<td>3433</td>
<td>3.26 [82.9]</td>
<td>3.105 [78.87]</td>
<td>2.865 [72.77]</td>
<td>2.71 [68.8]</td>
<td>A B C</td>
</tr>
<tr>
<td>64</td>
<td>3764</td>
<td>3.96 [100.7]</td>
<td>3.805 [96.65]</td>
<td>3.565 [90.55]</td>
<td>3.41 [86.6]</td>
<td>A B C</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>Dimension F</th>
<th>Diagonals</th>
<th>Corner Radii</th>
<th>Dimension G</th>
</tr>
</thead>
<tbody>
<tr>
<td>-5XX2</td>
<td>Solder Tail</td>
<td>.112 [2.84]</td>
<td>0.0245 ± .0005</td>
<td>[0.622]</td>
<td>.028 ± .001</td>
<td>0.0075 Ref [0.191]</td>
<td>.035 ± .003 [0.89] (See Note 3)</td>
</tr>
<tr>
<td>-6XX2</td>
<td>Thick PC Board</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-5X03</td>
<td>Solder Tail</td>
<td>.155 [3.94]</td>
<td>0.0245 ± .0005</td>
<td>[0.622]</td>
<td>.028 ± .001</td>
<td>0.0075 Ref [0.191]</td>
<td>.035 ± .003 [0.89]</td>
</tr>
<tr>
<td>-6X03</td>
<td>Thick PC Board</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-5X05</td>
<td>Solder Tail</td>
<td>.116 [2.95]</td>
<td>0.0250 ± .0002</td>
<td>[0.635]</td>
<td>.035 ± .003</td>
<td>0.003 Max [0.08]</td>
<td>.045 ± .003 [1.14]</td>
</tr>
<tr>
<td>-6X05</td>
<td>Wire Wrap Tail</td>
<td>.61 Ref [15.5]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Recommended Mounting Hole Pattern

<table>
<thead>
<tr>
<th>(Straight)</th>
<th>(Right Angle)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>[mm]</td>
</tr>
</tbody>
</table>

**Notes:**

1. Notches A & C will accommodate 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.
   - Refer to TS-0972 for the positions kinked.

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3M Interconnect Solutions
http://www.3M.com/interconnects/
3M™ Pak 100 4-Wall Header
.100” × .100” Latch/Ejector, Straight and Right Angle, High Temp Option 3000 Series

Ordering Information

30 Microinches Gold Plated Product

XXXXX-XXXX

Product Material:
N = High Temp
Blank = Standard

3M Part Number (See Table 1)

Shroud and Pin Configuration
5 = 4 Wall, Right Angle
6 = 4 Wall, Straight

Latch/Ejector System
0 = No Latch/Ejector
4 = Roll Pin Ejectors (3M Part #3505-4)
5 = Short, Snap-In Latch/Ejectors,
(3M Part #3505-30)
6 = Long, Snap-In Latch/Ejectors
(3M Part #3505-31)

Tail
02 = Solder Tail for .062 [1.57] Thick Board
K2 = Kinked Solder Tails for .062 [1.57]
Thick Board
03 = Solder Tails for .094 to .125 [2.39 to 3.18]
Thick Board
05 = Wrap Posts for up to 3 levels of Wire Wrap
(Not available on High Temp version.)

15 Microinches Gold Plated Product

XXXXX-XXXXUG

Product Material:
N = High Temp
Blank = Standard

3M Part Number (See Table 1)

Shroud and Pin Configuration
5 = 4 Wall, Right Angle
6 = 4 Wall, Straight

Latch/Ejector System
0 = No Latch/Ejector
5 = Short, Snap In Latch/Ejectors
(3M Part #3505-30)
6 = Long, Snap In Latch/Ejectors
(3M Part #3505-31)

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

Plating Suffix
UG = 15 microinch Gold

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