

**MTA-100 Friction Lock High Temperature Headers—Straight and Right-Angle**

**Material and Finish**

**Housing** —  
2–12 Position — UL94V-0 rated,  
nylon, black  
13–18 Position — UL94V-0 rated,  
LCP, black

**Posts** — Copper alloy, tin plated,  
.000030 [0.00076] or .000015  
[0.00038] gold over nickel

- Notes:**
1. Post(s) can be omitted for keying purposes. Specify the desired post(s) to be omitted using the figure to identify Post No. 1.
  2. Gold headers are duplex plated, gold on mating end of post and tin on the solder tail.
  3. To determine header overall length (dim. A) multiply .100 x the number of posts. Example: .100 x 10 posts equals 1.000 inch [25.4 mm].

For mateability options, see matrix on pages 12 and 13.  
For mating half visuals, see pages 14, 15 and 31.

**Header Ordering Information**

The “Base Part Numbers” Chart at right shows the base part number and number of posts available for the described headers.

Prefixes and suffixes are determined by the number of post positions in the header. For example, the complete part number for a 10-position header with straight posts would be:

Base number **647050** plus  
prefix-and-suffix  
**1- -0**

The correct ordering number is  
**1-647050-0**

The set of numbers in **bold face** are the RoHS equivalent version of the standard product. Example:

| No. of Pos. | Standard Prefix/Suffix | Lead Free RoHS Prefix/Suffix |
|-------------|------------------------|------------------------------|
| 2           | 647050-2               | 3-647050-2                   |
|             | thru                   |                              |
| 12          | 1-647050-2             | 4-647050-2                   |
| 13          | 1-647050-3             | NA                           |
|             | thru                   |                              |
| 18          | 1-647050-8             | NA                           |

See page 15 for an explanation of RoHS lead free equivalents.

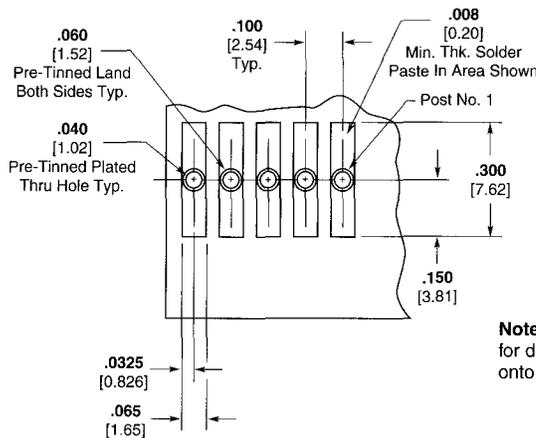
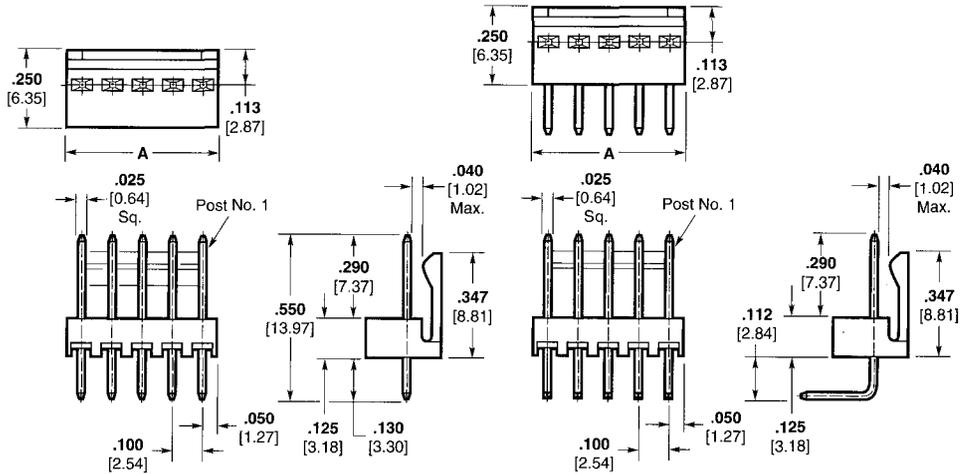
**Note:** All RoHS equivalent part numbers may not be available upon catalog release. If the number you need is not available, please contact Product Engineering to expedite your request.

**For use with Infrared Reflow Process**

**Maximum Temperature Rating:** 2–12 Position: 280°C  
13–18 Position: 235°C

**Straight Post (.025 [0.64] Square)**

**Right-Angle Post (.025 [0.64] Square)**



**Note:** Consult Product Drawing for details on placing headers onto PC boards.

Recommended Mounting Hole Pattern for .062 [1.57] Thick PC Board

**Base Part Numbers**

| Straight Posts   |                           | Straight Posts (Tube Loaded) |                           | Right-Angle Posts |                           |
|--|---------------------------|------------------------------|---------------------------|-------------------|---------------------------|
| Header Part Nos.                                       | No. of Posts/ RoHS Equiv. | Header Part Nos.             | No. of Posts/ RoHS Equiv. | Header Part Nos.  | No. of Posts/ RoHS Equiv. |
| <b>Standard UL94V-0, Tin Plated</b>                    |                           |                              |                           |                   |                           |
| 647050   | 2–18<br><b>32-42</b>      | 647295                       | 2–18<br><b>32-42</b>      | 647051            | 2–18<br><b>32-42</b>      |
| <b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b> |                           |                              |                           |                   |                           |
| 647116   | 2–18<br><b>32-42</b>      | 647297                       | 2–18<br><b>32-42</b>      | 647117            | 2–18<br><b>32-42</b>      |
| <b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b> |                           |                              |                           |                   |                           |
| 647078   | 2–18<br><b>32-42</b>      | 647296                       | 2–18<br><b>32-42</b>      | 647079            | 2–18<br><b>32-42</b>      |

**Note:** Select load headers (omitted pin headers) are available upon request. Please contact product engineer or product manager for details.