

## MTA-100 Polarized and Friction Lock Surface Mount Headers—Straight

### 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.

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

Base number **647106** plus  
prefix-and-suffix  
**4- -0**

The correct ordering number is  
**4-647106-0**

All part numbers are the RoHS equivalent version. Example:

No. of Pos.	Lead Free RoHS Prefix/Suffix
2	3-647106-2
12	4-647106-2

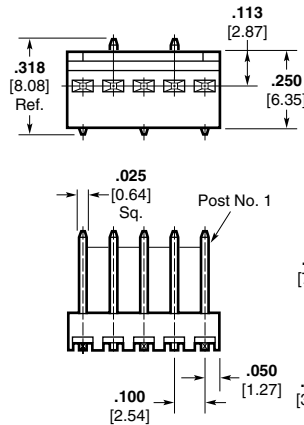
See page 15 for an explanation of RoHS lead free equivalents.

**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.

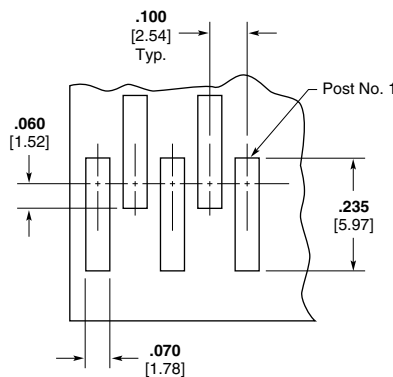
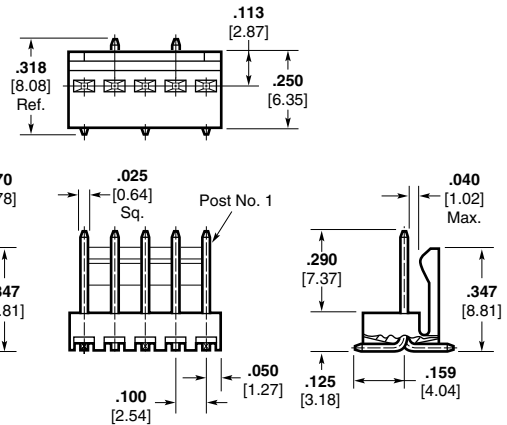
### For use with Infrared Reflow Process

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

#### Polarized Header



#### Friction Lock Header



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

Recommended PC Board Layout for use with .010 [0.25] Thick Stencil

### Base Part Numbers

Polarized Headers		Friction Lock Headers	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>			
647106	32-42	647166	32-42
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>			
647108	32-42	647168	32-42
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>			
647107	32-42	647167	32-42

### Tape Mount Part Numbers

Polarized Headers		Friction Lock Headers	
Header Part Nos.	RoHS Equiv.	Header Part Nos.	RoHS Equiv.
<b>Standard UL94V-0, Tin Plated</b>			
647531	32-42	647502	32-42
<b>Standard UL94V-0, .000030 [0.00076] Gold Plated</b>			
		1744163	32-42
<b>Standard UL94V-0, .000015 [0.00038] Gold Plated</b>			
		647467	32-42

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