

**INTRODUCTION:**

Adam Tech PH Series .100" Pin Headers offer a full range headers in a variety of configurations including Single, Dual and Three rows, Straight or Right Angle in Thru-Hole or SMT mounting. Their close tolerance .025" sq. posts are smoothly finished and taper tipped to eliminate insertion damage to the PCB or mating connector. Adam Tech Pin Headers can be easily cut into exact sizes as required. Options include stacked insulator versions and choice of tin, gold or selective gold plating. This series is compatible with all industry standard .100" pitch pin headers.

**FEATURES:**

- Single, Dual or Three Row
- Tin, gold or selective gold plating options
- Thru-hole or SMT mounting
- Stacked and Custom length versions available
- Versatile Breakaway design
- Hi Temp Insulator available

**MATING RECEPTACLES:**

Mates with all industry standard receptacles accepting a .025" square post on .100" (2.54mm) centerlines

**SPECIFICATIONS:**

**Material:**

- Insulator: PBT, rated UL94V-0
- Insulator Color: Black
- Contacts: Brass

**Plating:**

- U = Gold flash (30u" optional) over nickel underplate
- SG = Gold flash (30u" optional) over nickel underplate on contact area, tin over copper underplate on tails.
- T = Tin over copper underplate overall

**Electrical:**

- Operating voltage: 250V AC max.
- Current rating: 3 Amps max
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 5000 MΩ min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

**Mechanical:**

- Insertion force: 2 oz lbs max.
- Withdrawal force: .75 oz lbs min
- Mating durability: 1000 cycles min.

**PACKAGING:**

Anti-ESD plastic bags

**SAFETY AGENCY APPROVALS:**

- UL Recognized File No. E224053
- CSA Certified File No. LR1578596



**ORDERING INFORMATION**



**SERIES INDICATOR**

- PH1 = Single Row, Straight
- PH1RA = Single Row, Right Angle, High Profile
- PH1RB = Single Row, Right Angle, Low Profile
- PH2 = Dual Row, Straight
- PH2RA = Dual Row, Right Angle
- PH3 = Three Row, Straight
- PH3RA = Three Row, Right Angle

**POSITIONS**

- PH1: 1 thru 40
- PH2: 2 thru 80
- PH3: 3 thru 120

**MATING/TAIL LENGTH**

- A = Mating Length ("C" dim.) = .235" Solder Tail ("D" dim.) = .120"
- B = Mating Length ("C" dim.) = .318" Solder Tail Length ("D" dim.) = .120"

**PLATING**

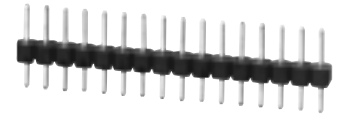
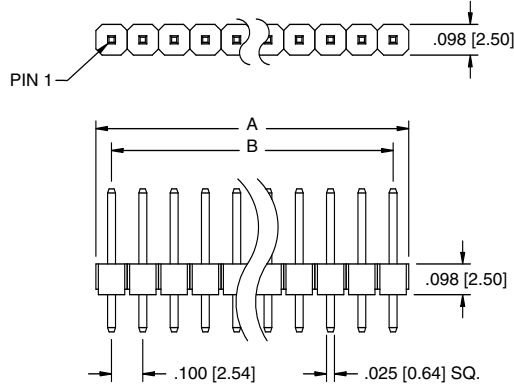
- U = Gold flash overall
- V = 15 μin gold on mating area 100 μin tin on solder tail
- W = 30 μin gold on mating area 100 μin tin on solder tail
- T = 100 μin tin overall
- SG = Gold flash on mating area 100 μin tin lead on solder tail

**OPTIONS:**

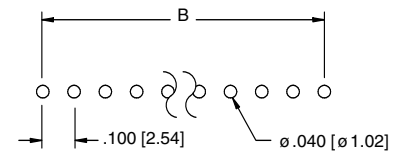
- Add designator(s) to end of part number
- SMT = Surface mount leads Dual row with Hi-Temp insulator
- SMT-A = Surface mount leads Type A with Hi-Temp insulator
- SMT-B = Surface mount leads Type B with Hi-Temp insulator
- HT = Hi-Temp insulator for Hi-Temp soldering processes
- RC = RoHS compliant lead-free product with Hi-Temp insulator

### PH1 - SINGLE ROW

A = .100 [2.54] X No. of Positions.  
B = .100 [2.54] X No. of Spaces.

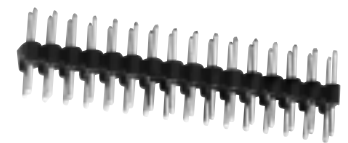
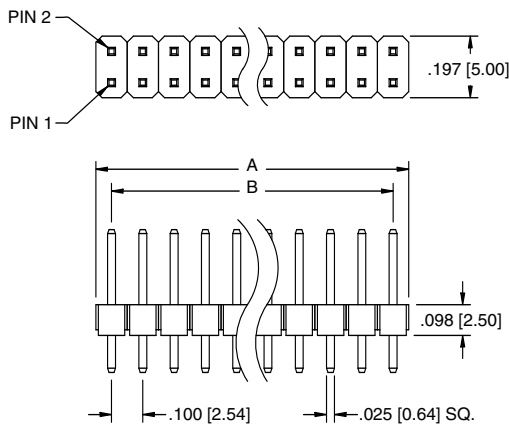


#### Recommended PCB Layout

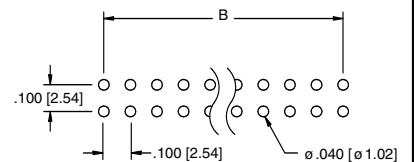


A = .100 [2.54] X No. of Positions.  
B = .100 [2.54] X No. of Spaces.

### PH2 - DUAL ROW

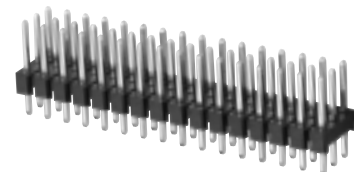
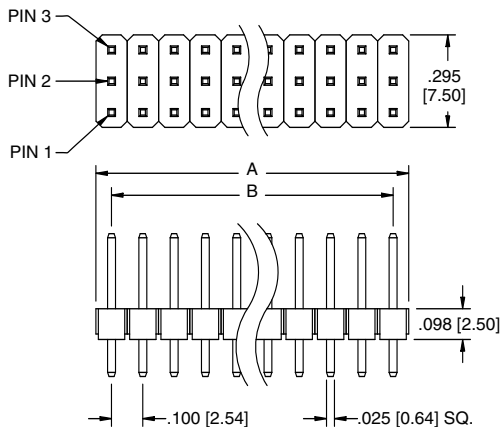


#### Recommended PCB Layout



A = .100 [2.54] X No. of Positions.  
B = .100 [2.54] X No. of Spaces.

### PH3 - TRIPLE ROW



#### Recommended PCB Layout

