# ADAM TECH

### Adam Technologies, Inc.

#### INTRODUCTION:

Adam Tech PH Series .100" Pin Headers are 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, glass reinforeced, rated UL94V-0 Optional Hi-Temp insulator: Nylon 6T, 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 m $\Omega$  max. initial

Insulation resistance: 5000 M $\Omega$  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.

Temperature Rating: Operating temperature: -40°C to +105°C Soldering process temperature: Standard insulator: 235°C

Hi-Temp insulator: 260°C

#### PACKAGING:

Anti-ESD plastic bags

#### SAFETY AGENCY APPROVALS:

UL Recognized & CSA Certified, File no. E224053



## .100" PIN HEADERS

.100" [2.54] CENTERLINE PH SERIES



ORDERING INFORMATION

#### PH1 U 40 Α SERIES INDICATOR MATING/TAIL **PH1** = Single Row, LENGTH A = Mating Length Straight PH1RA = Single Row, ("C" dim.) = .235" Solder Tail Right Angle, ("D" dim.) = .120" High Profile **PH1RB** = Single Row, $\mathbf{B}$ = Mating Length Right Angle. ("C" dim.) = .318" Low Profile Solder Tail Length ("D" dim.) = .120" **PH2** = Dual Row, Special lengths Straight available contact **PH2RA** = Dual Row, factory **Right Angle** PLATING **PH3** = Three Row, U = Gold flash overall Straight $\mathbf{V} = 15 \,\mu$ in gold on mating **PH3RA** = Three Row, area 100 $\mu$ in tin on **Right Angle** solder tail **W** = 30 $\mu$ in gold on mating **POSITIONS** area 100 $\mu$ in tin on PH1: 1 thru 40 solder tail PH2: 2 thru 80 $\mathbf{T} = 100 \,\mu$ in tin overall PH3: 3 thru 120 **SG** = Gold flash on mating area 100 $\mu$ in 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

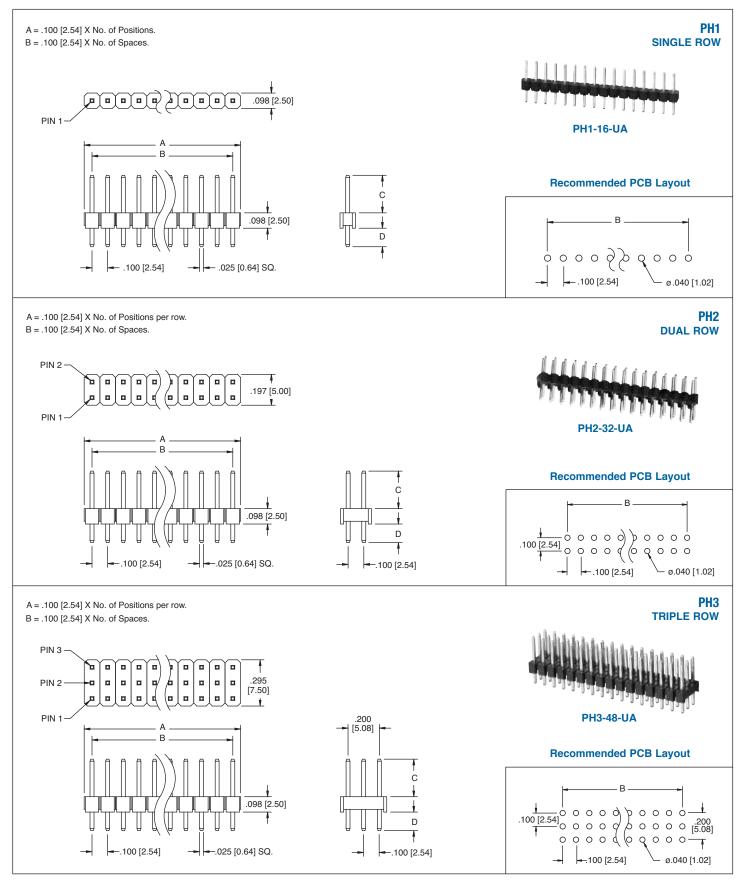
 SMT-B = Surface mount leads Type B with Hi-Temp insulator
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)
L = Low profile 1.50 mm insulator thickness



### .100" PIN HEADERS

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PH SERIES

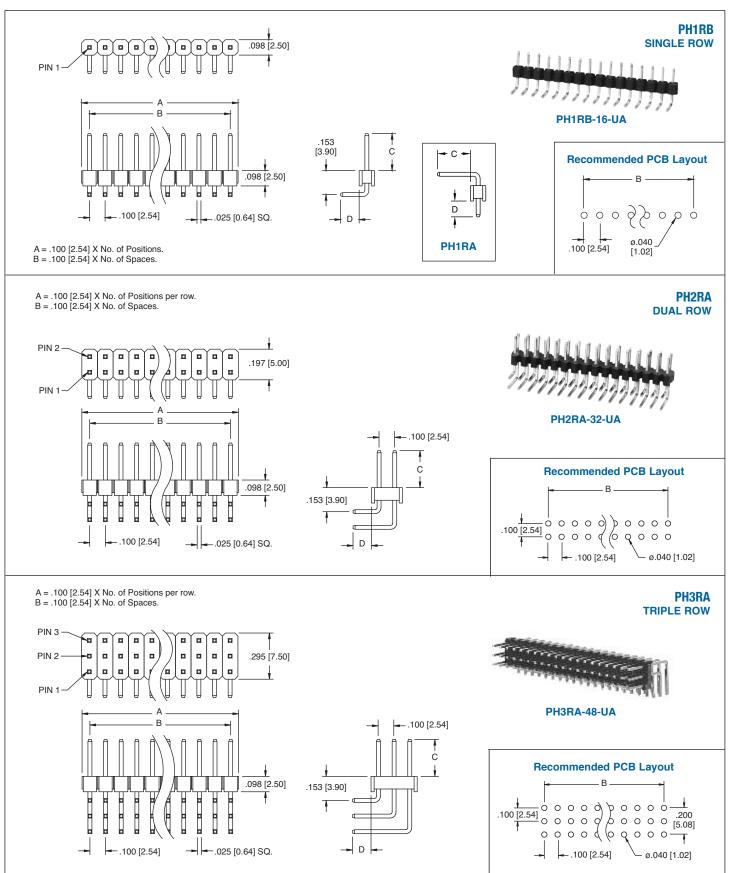




### .100" PIN HEADERS

.100" [2.54] CENTERLINE

PH SERIES





.100" PIN HEADERS

.100" [2.54] SURFACE MOUNT

PH SERIES

