

ADVANCED INTERCONNECT PRODUCTS AND SYSTEMS

# .100" PIN HEADERS

## .100" [2.54] CENTERLINE PH SERIES

#### 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 over nickel underplate
- SG = Gold 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 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

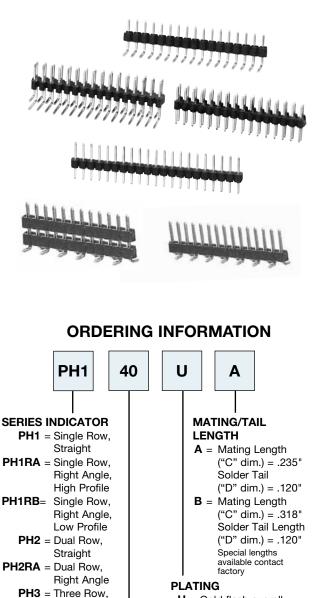
### PACKAGING:

Anti-ESD plastic bags

### SAFETY AGENCY APPROVALS:

UL Recognized & CSA Certified, File no. E224053





- U = Gold flash overall
- $\mathbf{V} = 15 \,\mu$ in gold on mating area 100  $\mu$ in tin on solder tail
- **W** = 30  $\mu$ in gold on mating area 100  $\mu$ in tin on solder tail
- $\mathbf{T} = 100 \,\mu$ in tin overall
- SG = Gold flash on
  - mating area 100  $\mu$ in tin lead on solder tail

#### **OPTIONS:**

Straight

**Right Angle** 

POSITIONS-

PH1: 1 thru 40

PH2: 2 thru 80

PH3: 3 thru 120

**PH3RA** = Three Row,

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

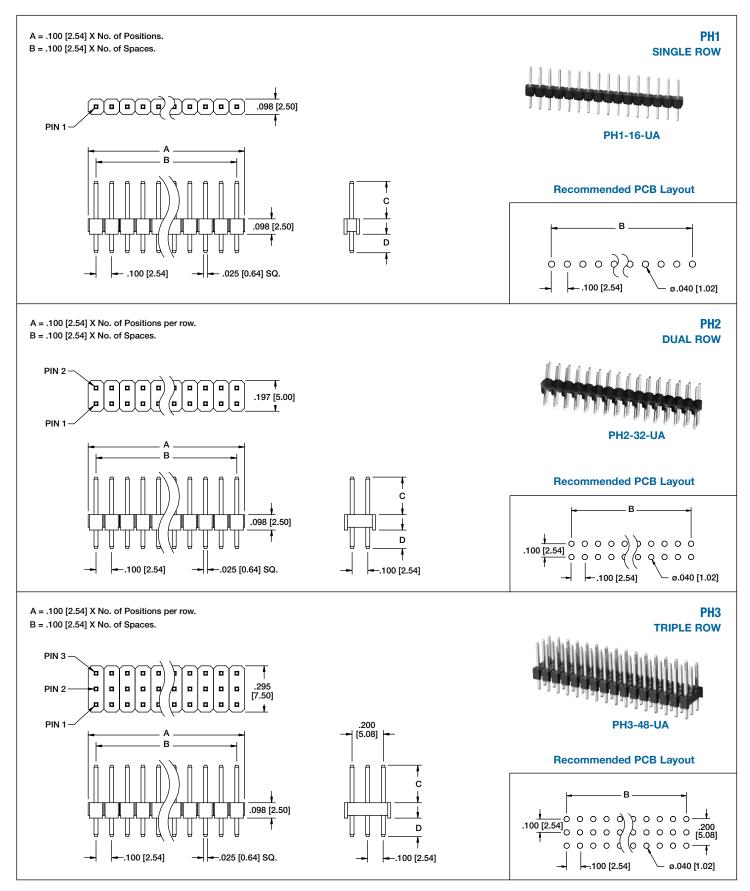


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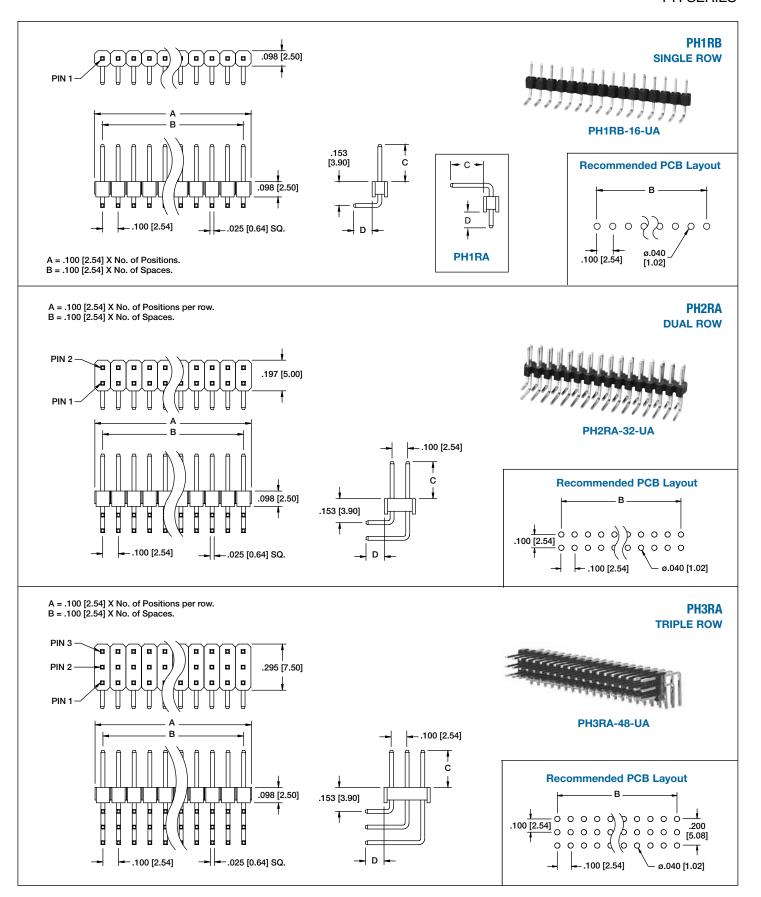




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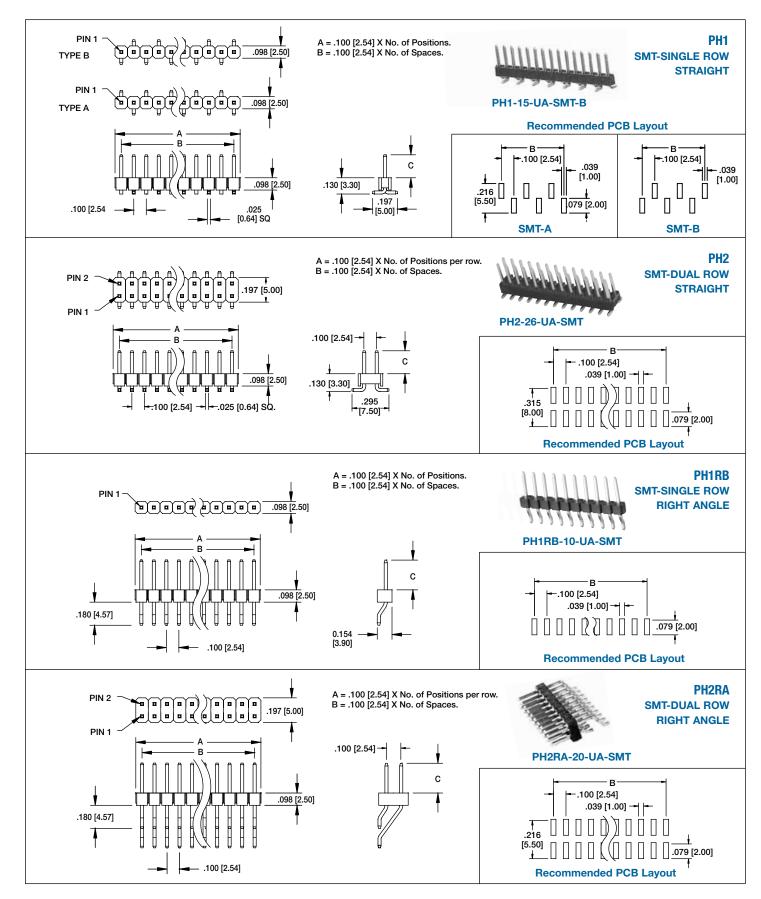
.100" PIN HEADERS

.100" [2.54] SURFACE MOUNT



ADVANCED INTERCONNECT PRODUCTS AND SYSTEMS

PH SERIES



.100" PIN HEADERS



ADVANCED INTERCONNECT PRODUCTS AND SYSTEMS

DUAL INSULATOR .100" [2.54] CENTERLINE DPH SERIES

**DPH-1 DPH-1-SMT** .098 [2.50] .098 [2.50] ( 🖬 ) .098 .098 [2.50] [2.50] .098 [2.50] .098 [2.50] С С F Е D .197 .025 [0.64] SQ .100 [5.00] .100 .025 [0.64] SQ. [2.54] [2.54] .100 [2.54] .040 [1.00] .217 0 0 0 0 000 0 [5.50] .100 ø.040 [2.54] [1.02] DPH-1-12-U-.200/SMT/.220-A **Recommended PCB Layout Recommended PCB Layout** DPH-2 **DPH-2-SMT** .197 [5.00] .197 [5.00] | -0 0 0 .100 .100 [2.54] [2.54] .098 .098 [2.50] [2.50] С С Е .100 .100 .295 .025 - .025 [0.64] SQ. [2.54] [0.64] SQ. [7.50] [2.54] .100 .100 .040 [1.00] [2.54] [2.54] 00 [2.54] .059 .100 [2.54] [1.50] .315 0 0 0 0 0 [8.00] Π  $(\square$ ø.040 [1.02 DPH-2-22-U-.220/.100/.350 **Recommended PCB Layout** DPH-2-16-U-.250/SMT/.300 **Recommended PCB Layout ORDERING INFORMATION** .XXX"/.XXX"/.XXX" (C DIM) (D DIM) (E DIM) DPH 2 20 SG SERIES INDICATOR NO. OF ROWS POSITIONS PLATING SPECIFIED IN INCHES AS: **DPH** =Dual insulator 1 thru 40 (single row) U = Gold plated C DIM. / D DIM. / E DIM. 1 = Single row .100" centerline  $\mathbf{2} = \text{Dual row}$ 4 thru 80 (dual row) **T** = Tin plated (replace D Dim. with SMT **3** = Triple row 3 thru 120 (triple row) **SG** = Gold plating for surface mount option) in contact area, tin plating A = .100 [2.54] x No. of Positions. on solder tails B = .100 [2.54] x No. of Spaces.