## 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 " 2.54 mm ] 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:

$\mathrm{U}=$ 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: $20 \mathrm{~m} \Omega$ max. initial
Insulation resistance: $5000 \mathrm{M} \Omega \mathrm{min}$.
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: $-40^{\circ} \mathrm{C}$ to $+105^{\circ} \mathrm{C}$
Soldering process temperature:
Standard insulator: $235^{\circ} \mathrm{C}$
Hi-Temp insulator: $260^{\circ} \mathrm{C}$

## PACKAGING:

Anti-ESD plastic bags

## SAFETY AGENCY APPROVALS:

UL Recognized \& CSA Certified, File no. E224053



ORDERING INFORMATION

|  | PH1 40 | U | A |
| :---: | :---: | :---: | :---: |
| SERIES INDICATOR <br> PH1 = Single Row, Straight |  |  | mAting/tail |
|  |  |  | LENGTH |
|  |  |  | A = Mating Length |
| PH1RA $=$ | Single Row, |  | ("C" dim.) = .235" |
|  | Right Angle, |  | Solder Tail |
|  | High Profile |  | ("D" dim.) = .120" |
| PH1RB $=$ | Single Row, Right Angle, |  | $\begin{aligned} & B=\begin{array}{l} \text { Mating Length } \\ (" C " \text { dim.) }=.318 " \end{array}, ~ \end{aligned}$ |
|  | Low Profile |  | Solder Tail Length |
| PH2 = | Dual Row, |  | ("D" dim.) = .120" |
|  | Straight |  | Special lengths |
| PH2RA $=$ | Dual Row, |  | available contact factory |
|  | Right Angle | PLAT | ATING |
| PH3 = ${ }_{\text {T }}$ | Three Row, |  | = Gold flash overall |
|  | Straight |  | $=15 \mu \mathrm{in}$ gold on mating |
| PH3RA = Three Row, Right Angle |  |  | area $100 \mu \mathrm{in}$ tin on solder tail |
|  | POSITIONS - |  | $=30 \mu$ in gold on mating area $100 \mu$ in tin on |
|  | PH1: 1 thru 40 |  | solder tail |
| PH2: 2 thru 80 |  |  | $=100 \mu \mathrm{in}$ tin overall |
|  | PH3: 3 thru 120 | SG = | = Gold flash on |
|  |  |  | mating area $100 \mu \mathrm{in}$ 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
$\mathrm{HT}=\mathrm{Hi}$-Temp insulator for Hi-Temp soldering processes up to $260^{\circ} \mathrm{C}$ (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)
$\mathbf{L}=$ Low profile 1.50 mm insulator thickness


## Adam Technologies, Inc.




