ADAM TECH

Adam Technologies, Inc.

.100" PIN HEADERS

.100" [2.54] CENTERLINE

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 underplateSG = 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 Ω max. initial Insulation resistance: 5000 M Ω 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:

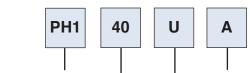
UL Recognized & CSA Certified, File no. E224053







ORDERING INFORMATION



SERIES INDICATOR

PH1 = Single Row, Straight

PH1RA = Single Row, Right Angle,

PH1RB = High Profile Single Row, Right Angle.

Low Profile

PH2 = Dual Row,

PH2RA = Straight
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" Special lengths available contact factory

PLATING

U = Gold flash overall
V = 15 μin gold on mating area 100 μin tin on solder tail

 $W = 30 \mu in gold on mating area 100 \mu in tin on solder tail$

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 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