

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 reinforced, 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 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.

Temperature Rating:

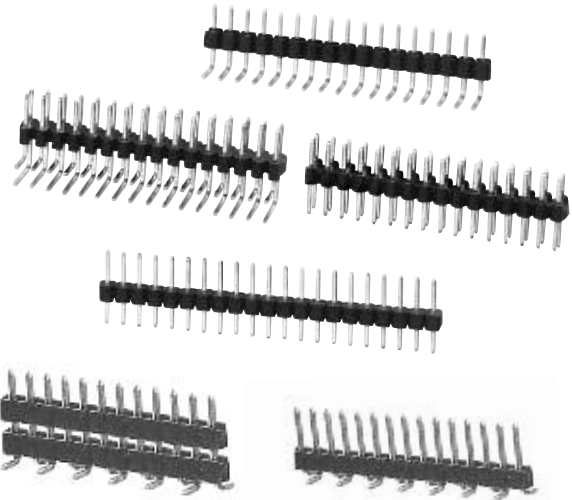
Operating temperature: -40°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic bags

SAFETY AGENCY APPROVALS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION

PH1	40	U	A
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		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	
POSITIONS PH1: 1 thru 40 PH2: 2 thru 80 PH3: 3 thru 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

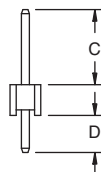
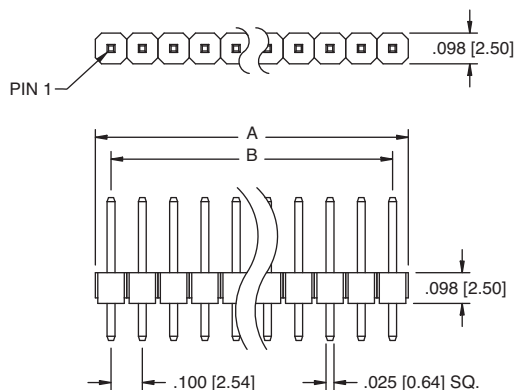
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only.)

All SMT products are manufactured with Hi-Temp insulators)

L = Low profile 1.50 mm insulator thickness

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

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

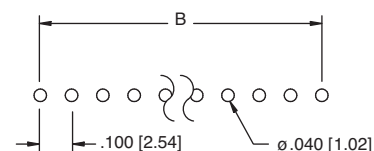


PH1
SINGLE ROW



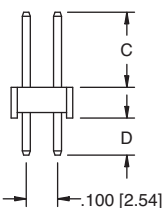
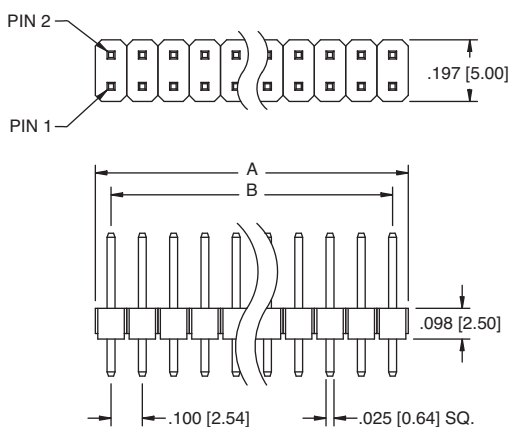
PH1-16-UA

Recommended PCB Layout



A = .100 [2.54] X No. of Positions per row.

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

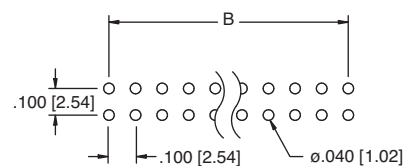


PH2
DUAL ROW



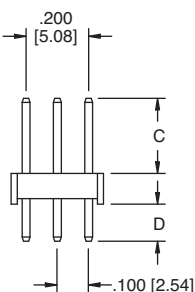
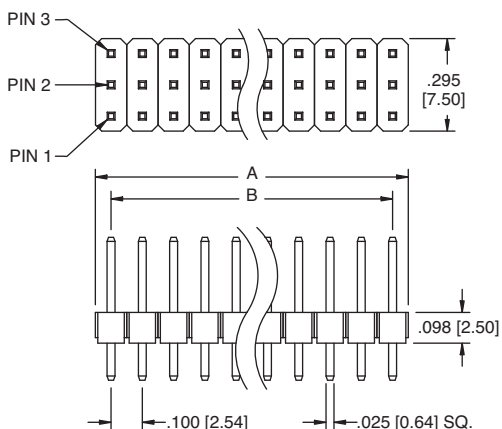
PH2-32-UA

Recommended PCB Layout

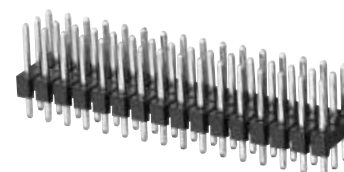


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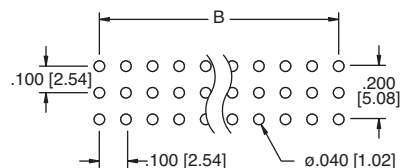


PH3
TRIPLE ROW

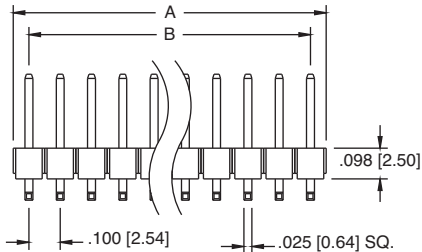
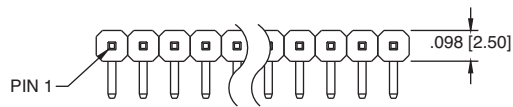


PH3-48-UA

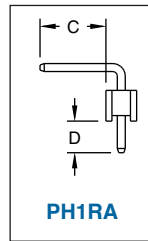
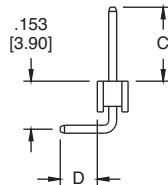
Recommended PCB Layout



PH1RB SINGLE ROW



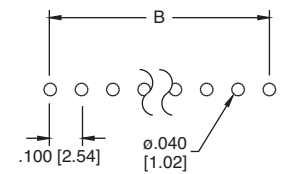
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B = .100 [2.54] X No. of Spaces.



PH1RA

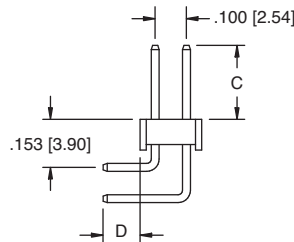
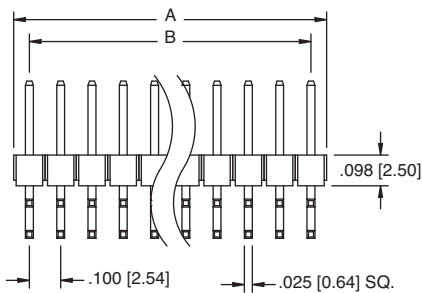
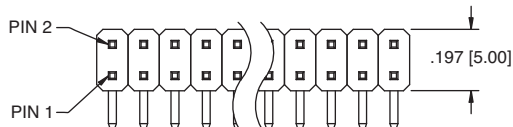
PH1RB-16-UA

Recommended PCB Layout



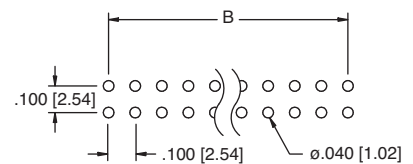
A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

PH2RA DUAL ROW



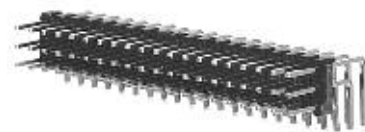
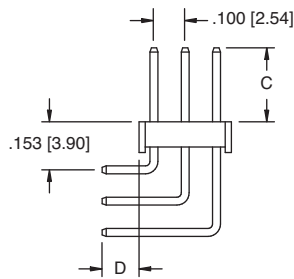
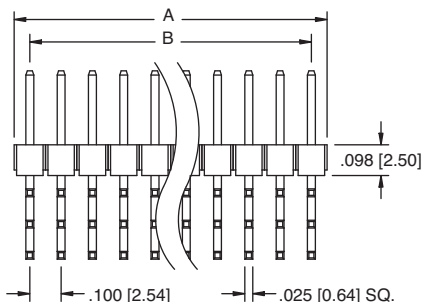
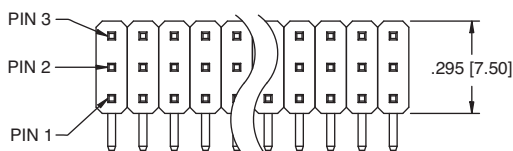
PH2RA-32-UA

Recommended PCB Layout



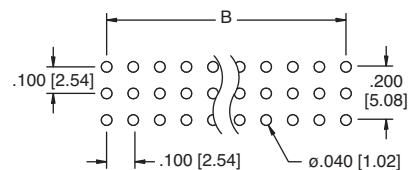
A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

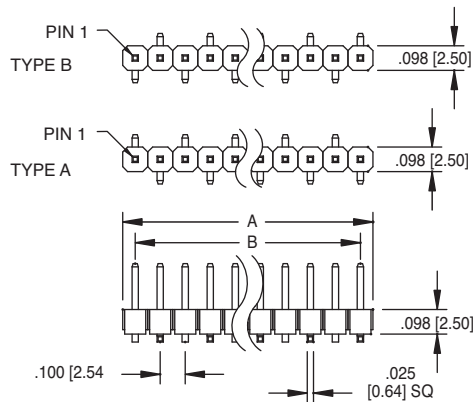
PH3RA TRIPLE ROW



PH3RA-48-UA

Recommended PCB Layout





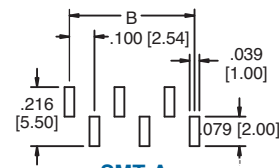
A = .100 [2.54] X No. of Positions.
B = .100 [2.54] X No. of Spaces.



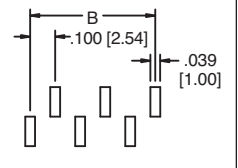
PH1-15-UA-SMT-B

PH1
SMT-SINGLE ROW

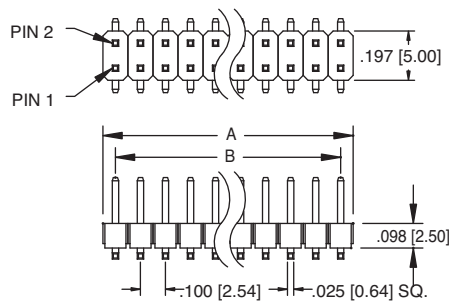
Recommended PCB Layout



SMT-A



SMT-B



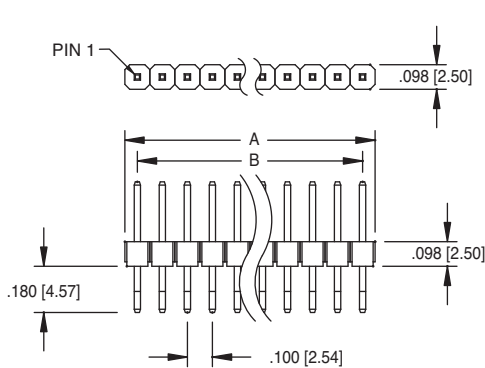
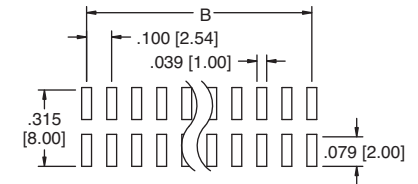
A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.



PH2-26-UA-SMT

PH2
SMT-DUAL ROW

Recommended PCB Layout



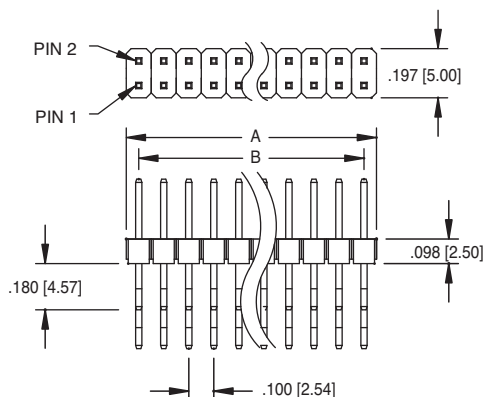
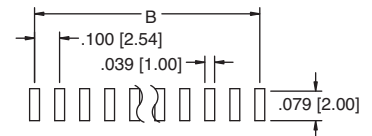
A = .100 [2.54] X No. of Positions.
B = .100 [2.54] X No. of Spaces.



PH1RB-10-UA-SMT

PH1RB
SMT-SINGLE ROW

Recommended PCB Layout



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



PH2-20-UA-SMT

PH2RA
SMT-DUAL ROW

Recommended PCB Layout

