

INTRODUCTION:

Adam Tech PH Series .100" Pin Headers offer 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:

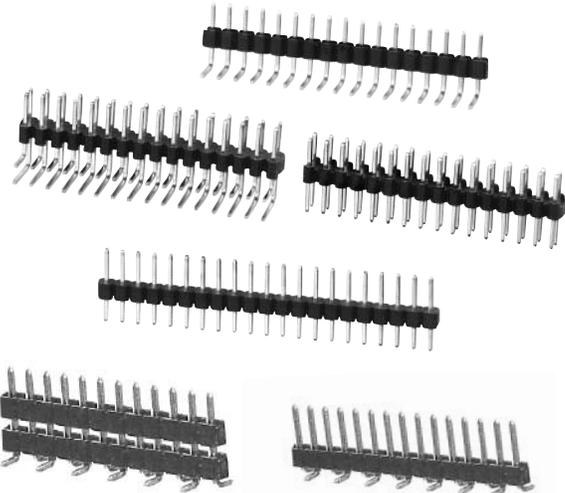
Operating temperature: -55°C to +105°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

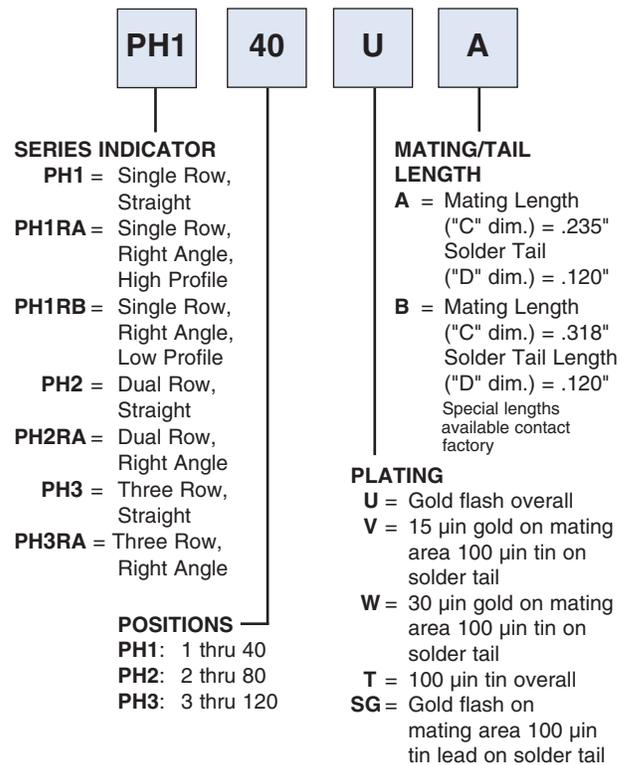
Anti-ESD plastic bags

SAFETY AGENCY APPROVALS:

UL Recognized File No. E224053
 CSA Certified File No. LR1578596



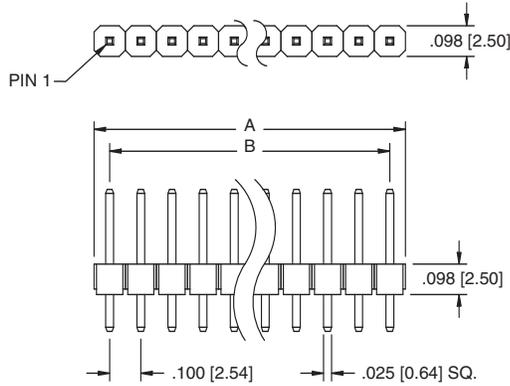
ORDERING INFORMATION



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)

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

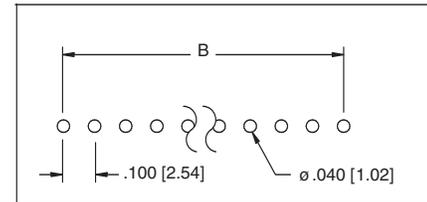


PH1
SINGLE ROW

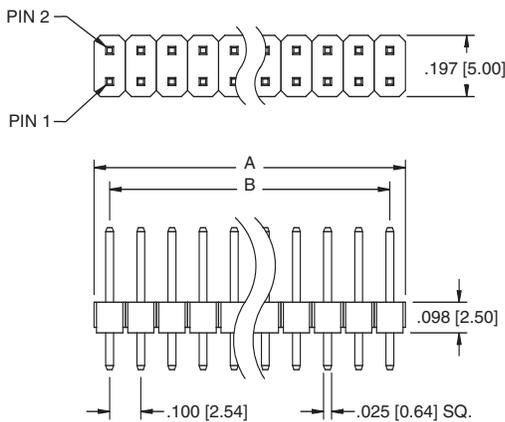


PH1-16-UA

Recommended PCB Layout



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

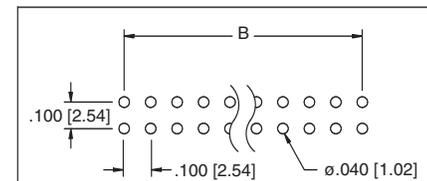


PH2
DUAL ROW

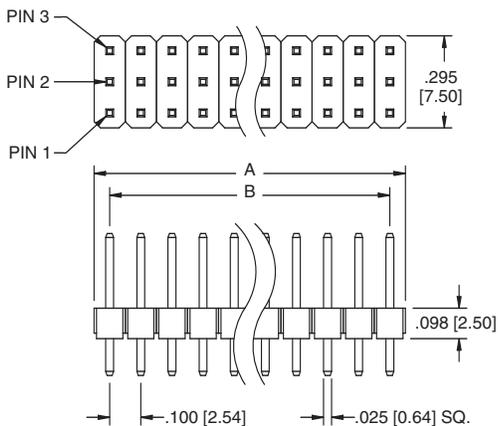


PH2-32-UA

Recommended PCB Layout



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

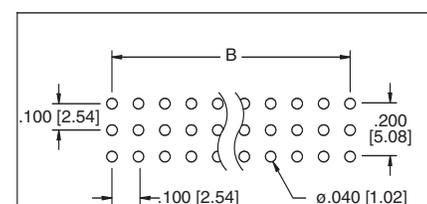


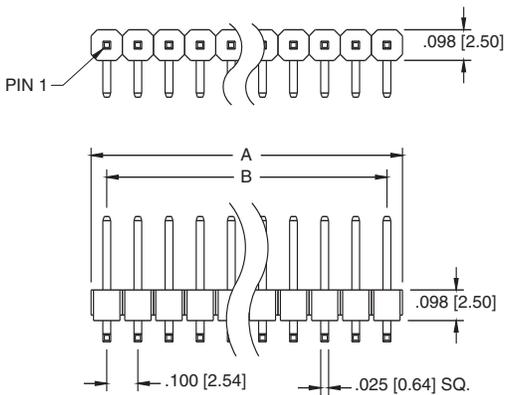
PH3
TRIPLE ROW



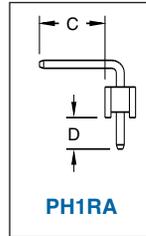
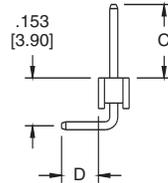
PH3-48-UA

Recommended PCB Layout





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



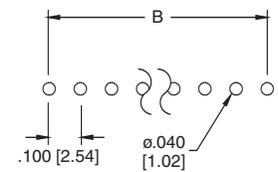
PH1RA

PH1RB
SINGLE ROW

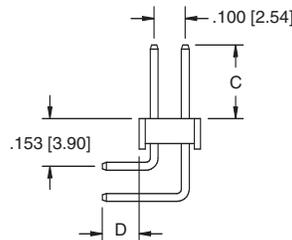
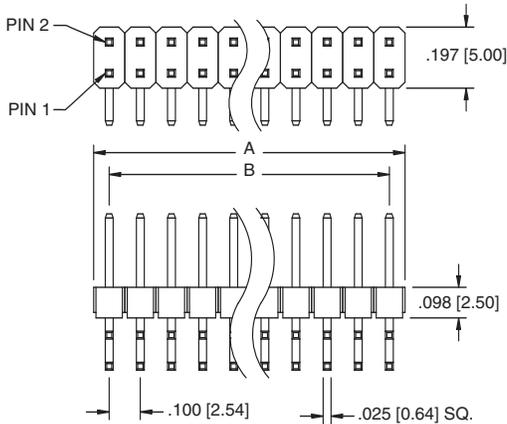


PH1RB-16-UA

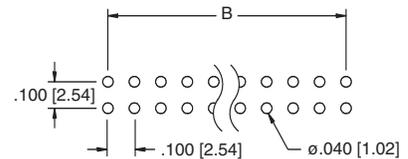
Recommended PCB Layout



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



Recommended PCB Layout

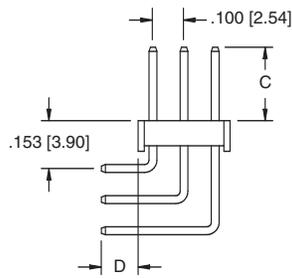
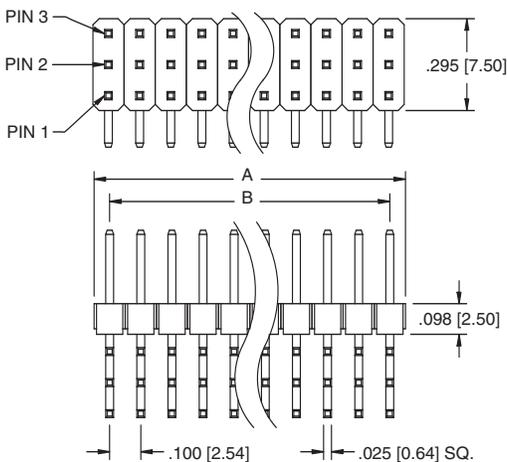


PH2RA
DUAL ROW

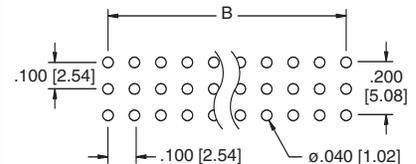


PH2RA-32-UA

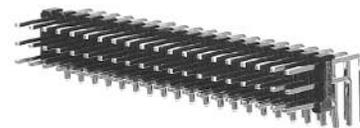
A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.



Recommended PCB Layout



PH3RA
TRIPLE ROW



PH3RA-48-UA

<p>PIN 1 TYPE B</p> <p>PIN 1 TYPE A</p> <p>A B</p> <p>.098 [2.50]</p> <p>.100 [2.54]</p> <p>.025 [0.64] SQ</p>	<p>A = .100 [2.54] X No. of Positions. B = .100 [2.54] X No. of Spaces.</p> <p>.130 [3.30]</p> <p>.197 [5.00]</p> <p>C</p>	<p>PH1 SMT-SINGLE ROW</p> <p>PH1-15-UA-SMT-B</p> <p>Recommended PCB Layout</p> <p>SMT-A</p> <p>SMT-B</p>
<p>PIN 2</p> <p>PIN 1</p> <p>A B</p> <p>.197 [5.00]</p> <p>.100 [2.54]</p> <p>.025 [0.64] SQ</p>	<p>A = .100 [2.54] X No. of Positions per row. B = .100 [2.54] X No. of Spaces.</p> <p>.130 [3.30]</p> <p>.295 [7.50]</p> <p>C</p>	<p>PH2 SMT-DUAL ROW</p> <p>PH2-26-UA-SMT</p> <p>Recommended PCB Layout</p> <p>SMT-A</p> <p>SMT-B</p>
<p>PIN 1</p> <p>A B</p> <p>.098 [2.50]</p> <p>.180 [4.57]</p> <p>.100 [2.54]</p>	<p>A = .100 [2.54] X No. of Positions. B = .100 [2.54] X No. of Spaces.</p> <p>0.154 [3.90]</p> <p>C</p>	<p>PH1RB SMT-SINGLE ROW</p> <p>PH1RB-10-UA-SMT</p> <p>Recommended PCB Layout</p> <p>SMT-A</p> <p>SMT-B</p>
<p>PIN 2</p> <p>PIN 1</p> <p>A B</p> <p>.197 [5.00]</p> <p>.180 [4.57]</p> <p>.100 [2.54]</p>	<p>A = .100 [2.54] X No. of Positions per row. B = .100 [2.54] X No. of Spaces.</p> <p>.100 [2.54]</p> <p>C</p>	<p>PH2RA SMT-DUAL ROW</p> <p>PH2RA-20-UA-SMT</p> <p>Recommended PCB Layout</p> <p>SMT-A</p> <p>SMT-B</p>

<p>DPH-1</p> <p>Recommended PCB Layout</p> <p>DPH-1-10-U-.220/.100/.350</p>	<p>DPH-1-SMT</p> <p>Recommended PCB Layout</p> <p>DPH-1-12-U-.200/SMT/.220-A</p>
<p>DPH-2</p> <p>Recommended PCB Layout</p> <p>DPH-2-22-U-.220/.100/.350</p>	<p>DPH-2-SMT</p> <p>Recommended PCB Layout</p> <p>DPH-2-16-U-.250/SMT/.300</p>

ORDERING INFORMATION

DPH

SERIES INDICATOR
DPH = Dual insulator
 .100" centerline

2

NO. OF ROWS
1 = Single row
2 = Dual row
3 = Triple row

20

POSITIONS
 1 thru 40 (single row)
 4 thru 80 (dual row)
 3 thru 120 (triple row)

SG

PLATING
U = Gold plated
T = Tin plated
SG = Gold plating in contact area, tin plating on solder tails

.XXX"/.XXX"/.XXX"
 (C DIM) (D DIM) (E DIM)

SPECIFIED IN INCHES AS:
C Dim. / D Dim. / E Dim.
 (replace D Dim. with SMT for surface mount option)