ADAM TECH

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 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

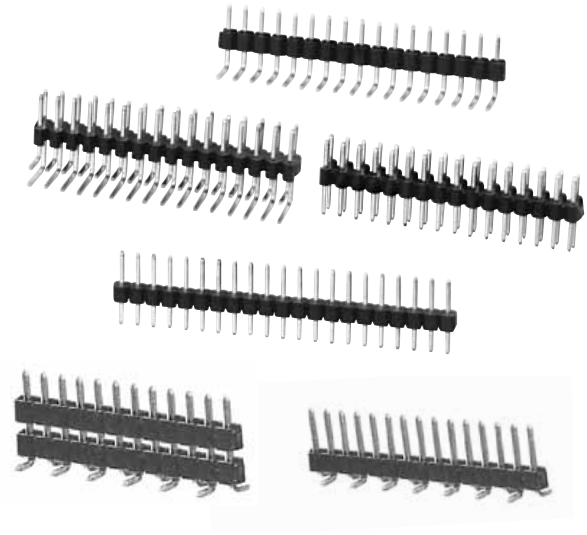
PACKAGING:
Anti-ESD plastic bags

SAFETY AGENCY APPROVALS:
UL Recognized & CSA Certified, File no. E224053

c UL us

RoHS COMPLIANT

HI-TEMP INSULATOR AVAILABLE



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

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 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

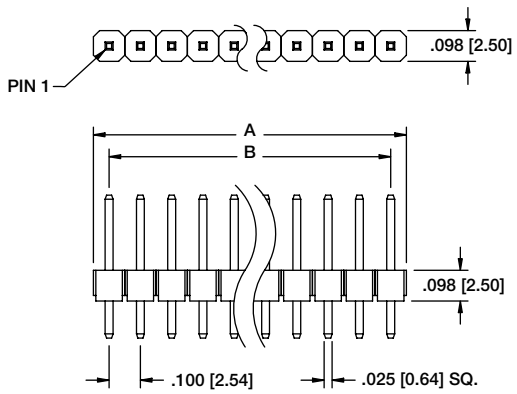
OPTIONS:
Add designator(s) to end of part number
SMT = Surface mount leads Dual row with Hi-Temp insulator
SMT-A = Surface mount leads Type A with Hi-Temp insulator
SMT-B = Surface mount leads Type B with Hi-Temp insulator
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C *(Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*
L = Low profile 1.50 mm insulator thickness

.100" PIN HEADERS

.100" [2.54] CENTERLINE

PH SERIES

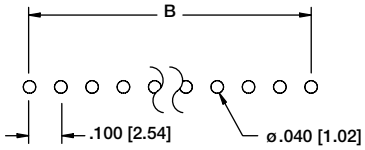
A = .100 [2.54] X No. of Positions.
B = .100 [2.54] X No. of Spaces.



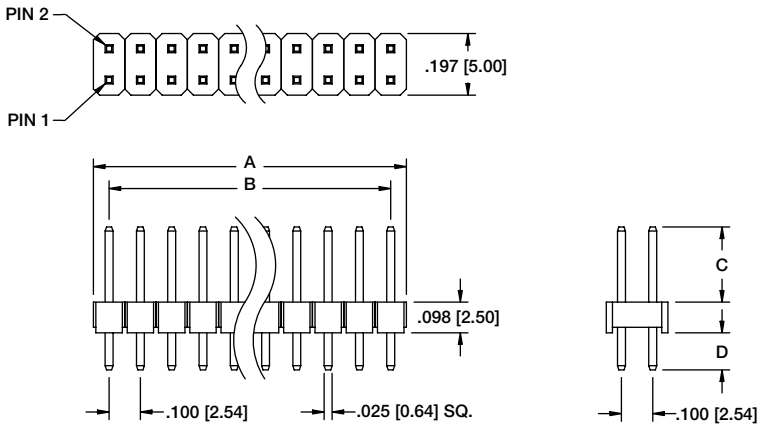
PH1
SINGLE ROW

PH1-16-UA

Recommended PCB Layout



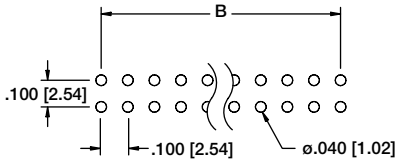
A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.



PH2
DUAL ROW

PH2-32-UA

Recommended PCB Layout



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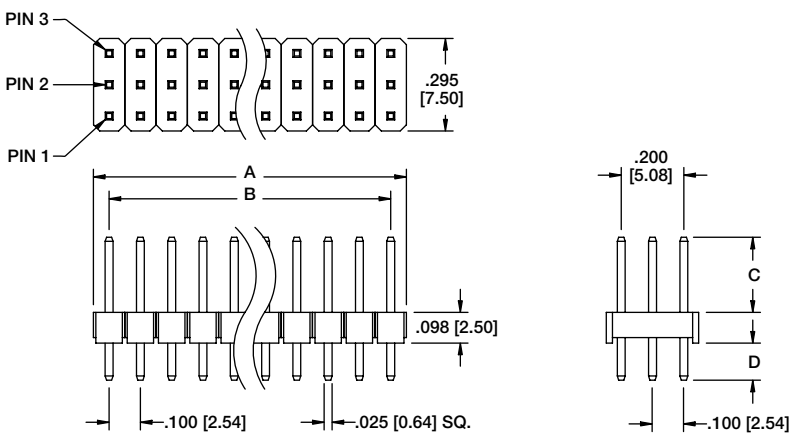
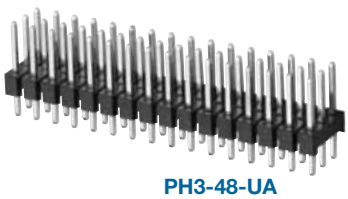
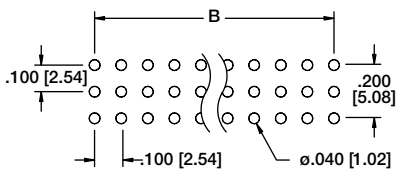


PH3
TRIPLE ROW



PH3-48-UA

Recommended PCB Layout

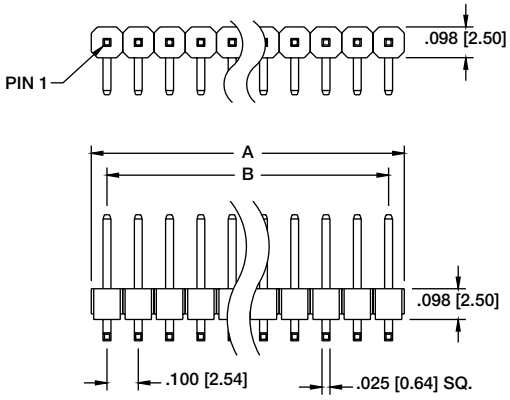


.100" PIN HEADERS

.100" [2.54] CENTERLINE

PH SERIES

PH1RB
SINGLE ROW



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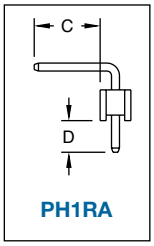
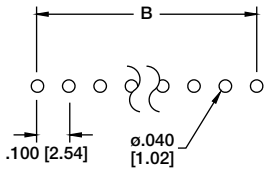
B = .100 [2.54] X No. of Spaces.



PH1RA

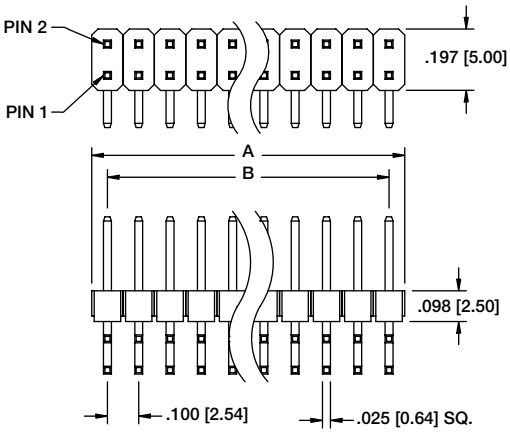
PH1RB-16-UA

Recommended PCB Layout



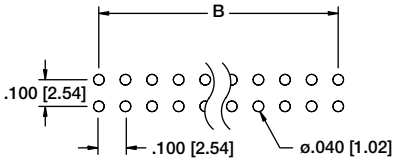
A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

PH2RA
DUAL ROW



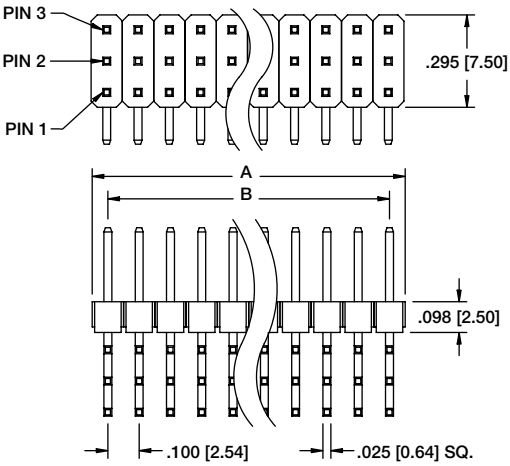
PH2RA-32-UA

Recommended PCB Layout



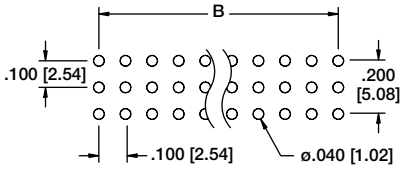
A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

PH3RA
TRIPLE ROW



PH3RA-48-UA

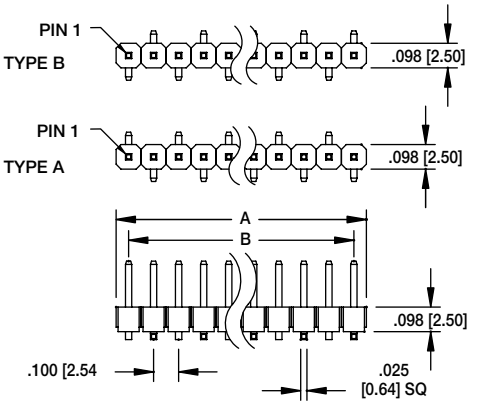
Recommended PCB Layout



.100" PIN HEADERS

.100" [2.54] SURFACE MOUNT

PH SERIES

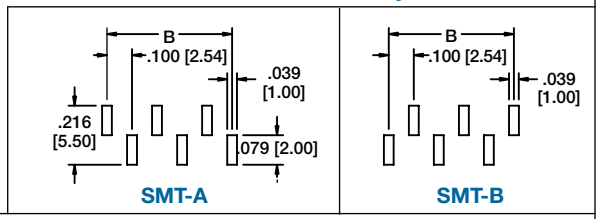


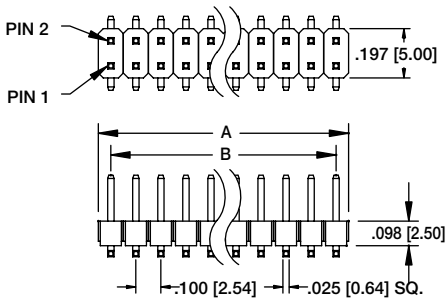
A = .100 [2.54] X No. of Positions.
B = .100 [2.54] X No. of Spaces.

PH1
SMT-SINGLE ROW
STRAIGHT

PH1-15-UA-SMT-B

Recommended PCB Layout

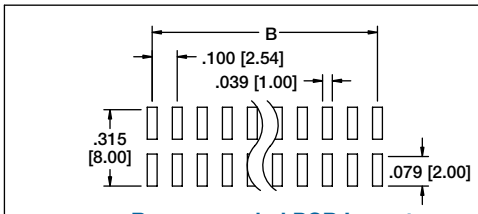




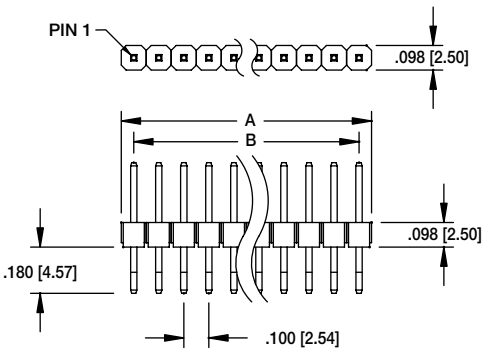
A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

PH2
SMT-DUAL ROW
STRAIGHT

PH2-26-UA-SMT



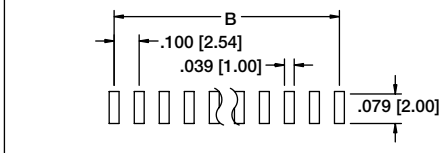
Recommended PCB Layout



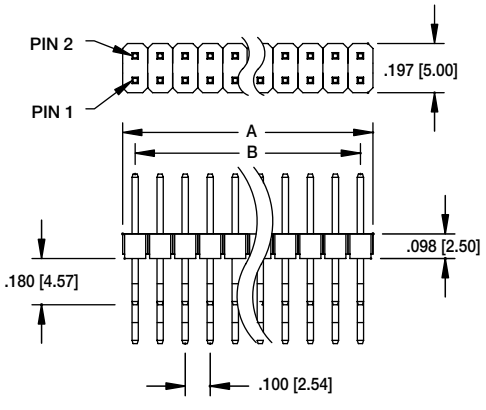
A = .100 [2.54] X No. of Positions.
B = .100 [2.54] X No. of Spaces.

PH1RB
SMT-SINGLE ROW
RIGHT ANGLE

PH1RB-10-UA-SMT



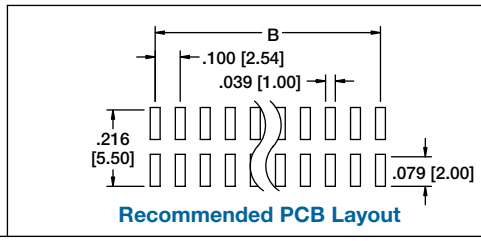
Recommended PCB Layout



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

PH2RA
SMT-DUAL ROW
RIGHT ANGLE

PH2RA-20-UA-SMT



Recommended PCB Layout