

INTRODUCTION:

Adam Tech .050" HPH Series Pin Headers are fine pitched, low profile, PCB mounted pin headers intended for limited space applications or where overall size is a factor. Our specially tooled insulators and contacts offer consistent high quality through automated production processes. This series offers an extensive range of single, dual and stacked versions. Each is available in thru-hole PCB or SMT mounting with choice of tin, gold or selective gold plating.

FEATURES:

- Single and Dual Row
- Stacked, Thru-Hole and SMT mounting
- Pin Header and Female Header sets
- Lightweight and Compact
- Hi Temp Insulator available
- Choice of plating

MATING OPTIONS:

Mates with all industry standard .050" [1.27mm] pitch female headers designed for use with 0.4mm Sq. pins and Low profile receptacle

SPECIFICATIONS:

Material:

Standard Hi-Temp insulator: Nylon 6T or Nylon 46, rated UL94V-0
Insulator Color: Black
Contacts: Brass or Phosphor Bronze

Plating:

U = Gold over nickel underplate overall
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: 1 Amp max
Contact resistance: 20 mΩ max. Initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Mating durability: 500 Cycles min.

Temperature Rating:

Operating temperature: -40°C to +105°C
Soldering process temperature: 260°C

PACKAGING:

Anti-ESD plastic bags

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



OPTIONS:

Add designator(s) to end of part number

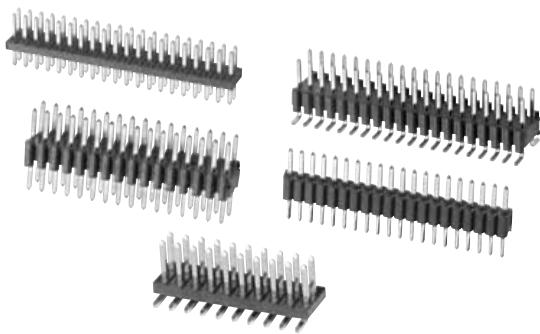
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
(Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)

SMT = Dual Row Surface Mount leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

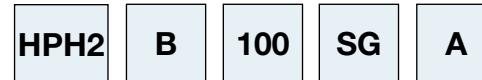
SMT-A = Single Row Surface Mount Leads Type A

SMT-B = Single Row Surface Mount Leads Type B

P = Optional locating peg



ORDERING INFORMATION



SERIES INDICATOR

HPH1 = .050" Single row Pin Header
HPH2 = .050" Dual Row Pin Header

POSITIONS

01 thru 32 (single row)
04 thru 100 (dual row)

MATING/ SOLDER-TAIL LENGTH

A = Standard length
B = Special length, customer specified, defined as tail length/total length

INSULATOR SIZE

A = 1.00mm insulator thickness
single or dual row
(dual row .050"x.050")
B = .100" insulator thickness
single or dual row
(dual row .050"x.100")

PLATING

SG = Selective gold plating in contact area
Tin plating on solder tails

U = Gold Plated
T = Tin Plated

ORDERING INFORMATION



SERIES INDICATOR

DPHH = Dual insulator .050" centerline Pin Header

NO. OF ROWS

1 = Single row .050"
2 = Dual row .050"x.100"

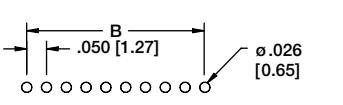
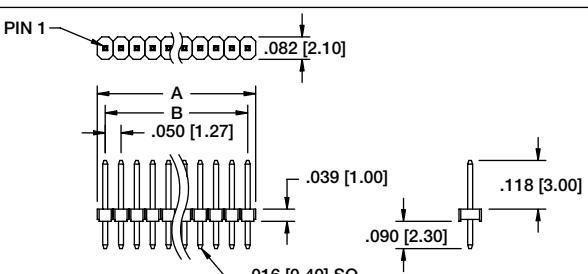
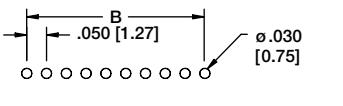
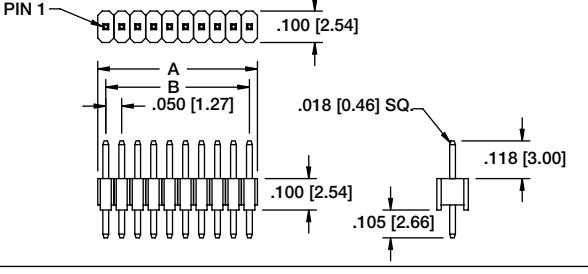
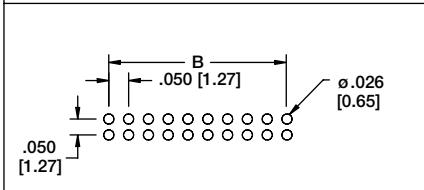
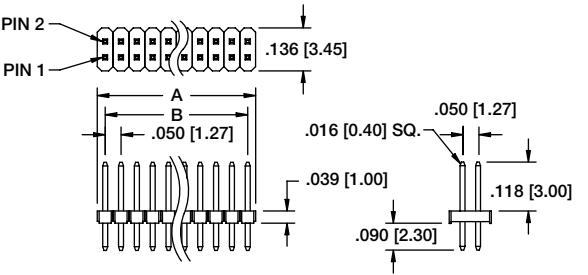
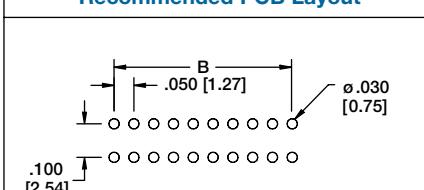
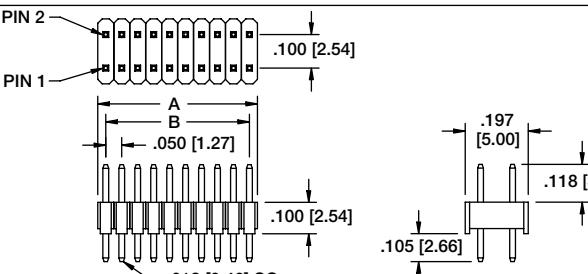
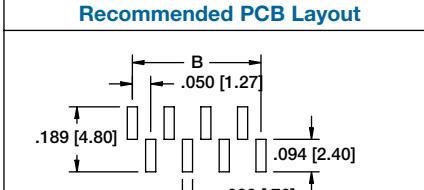
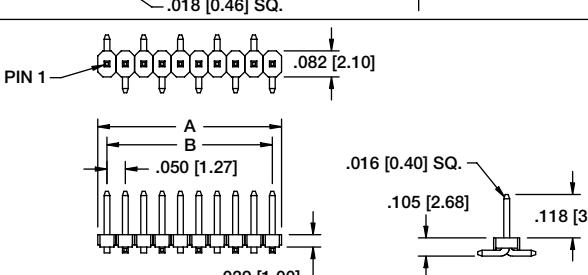
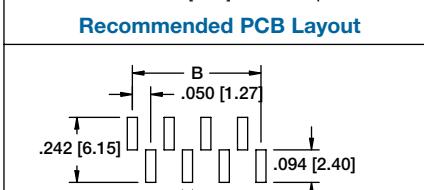
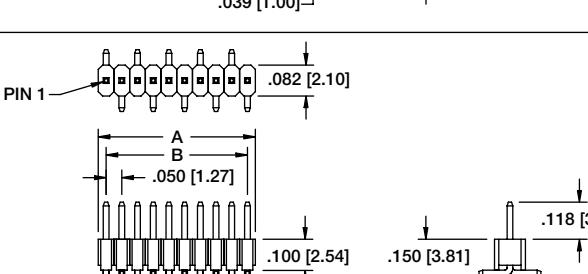
XXX"/.XXX"/.XXX"
(C DIM) (D DIM) (E DIM)
SPECIFIED IN INCHES AS: C DIM./D DIM./E DIM.
(replace D Dim. with SMT for surface mount option)

PLATING

SG = Selective gold plating in contact area and Tin plating on solder tails
U = Gold Plated
T = Tin Plated

POSITIONS

01 thru 50 (single row)
04 thru 100 (dual row)

<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>PIN 1</p>  <p>HPH1-A SINGLE ROW STRAIGHT WITH 1.00mm INSULATOR</p>  <p>HPH1-A-20-UA</p>
<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>PIN 1</p>  <p>HPH1-B SINGLE ROW STRAIGHT WITH .100" INSULATOR</p>  <p>HPH1-B-20-UA</p>
<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>PIN 2</p> <p>PIN 1</p>  <p>HPH2-A DUAL ROW STRAIGHT WITH 1.00mm INSULATOR</p>  <p>HPH2-A-40-UA</p>
<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>PIN 2</p> <p>PIN 1</p>  <p>HPH2-B DUAL ROW STRAIGHT WITH .100" INSULATOR</p>  <p>HPH2-B-40-UA</p>
<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>PIN 1</p>  <p>HPH1-A (SMT) SINGLE ROW STRAIGHT SMT WITH 1.00mm INSULATOR</p>  <p>HPH1-A-20-UA-SMT</p>
<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>PIN 1</p>  <p>HPH1-B (SMT) SINGLE ROW STRAIGHT SMT WITH .100" INSULATOR</p>  <p>HPH1-B-20-UA-SMT</p>