

### 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 flash over nickel underplate overall  
SG = Gold flash 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

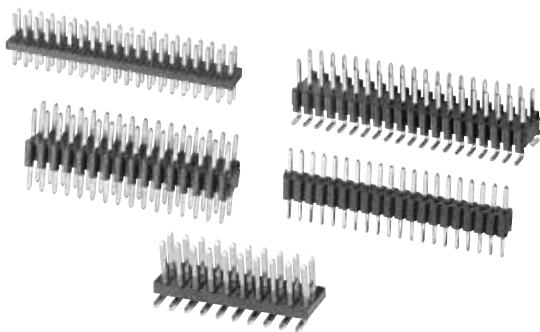
**SMT-B** = Single Row Surface Mount Leads Type B

**P** = Optional locating peg

# .050" PIN HEADERS

.050" [1.27] CENTERLINE

HPH SERIES



### ORDERING INFORMATION

HPH2 B 100 SG A

**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

DHPH 2 50 SG .XXX"/.XXX"/.XXX"  
(C DIM) (D DIM) (E DIM)

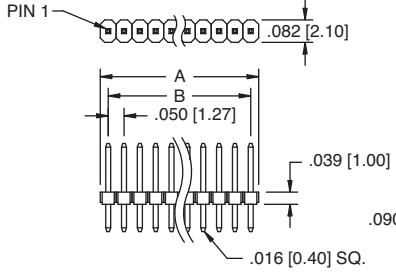
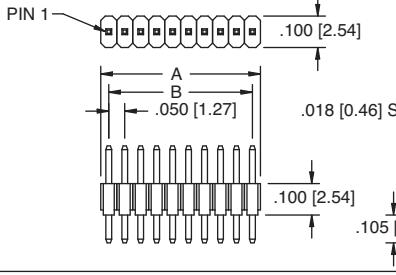
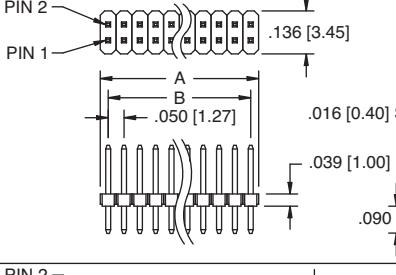
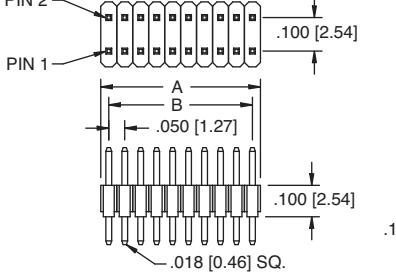
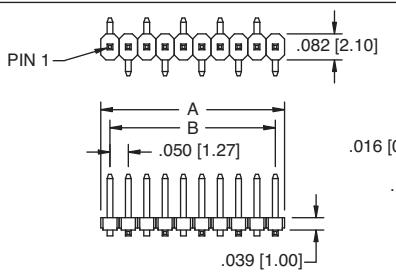
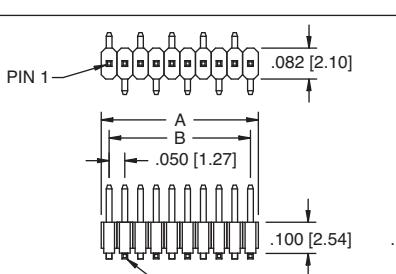
**SERIES INDICATOR**  
DHPH = Dual insulator .050" centerline Pin Header

**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

**NO. OF ROWS**  
1 = Single row .050"  
2 = Dual row .050"x.100"

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

A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces		<b>HPH1-A</b> <b>SINGLE ROW STRAIGHT WITH 1.00mm INSULATOR</b>	
A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces		<b>HPH1-B</b> <b>SINGLE ROW STRAIGHT WITH .100" INSULATOR</b>	
A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces		<b>HPH2-A</b> <b>DUAL ROW STRAIGHT WITH 1.00mm INSULATOR</b>	
A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces		<b>HPH2-B</b> <b>DUAL ROW STRAIGHT WITH .100" INSULATOR</b>	
A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces		<b>HPH1-A (SMT)</b> <b>SINGLE ROW STRAIGHT SMT WITH 1.00mm INSULATOR</b>	
A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces		<b>HPH1-B (SMT)</b> <b>SINGLE ROW STRAIGHT SMT WITH .100" INSULATOR</b>	