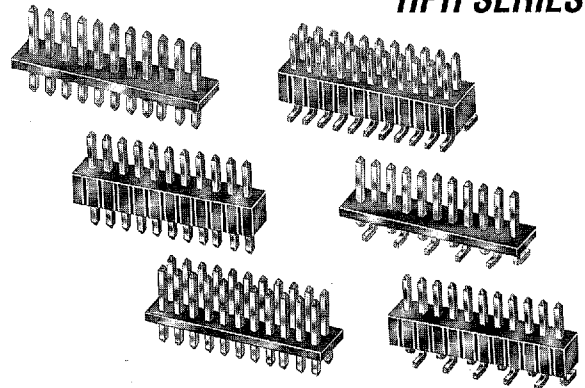


# ADAM TECH

ADAM TECHNOLOGIES INC.

## .050" PIN HEADERS .050" [1.27] CENTERLINE HPH SERIES



### INTRODUCTION:

Adam Tech HPH Series Half Pitch Pin Headers are designed for applications where space and weight are key factors. They provide a fast, simple one-step installation of multiple posts to PC boards. Both single and dual row types are available. Custom pin lengths are available to suit specific applications.

### FEATURES:

- ❑ Half pitch .050" centerline increases board density
- ❑ Single and dual row types
- ❑ Breakaway style insulator for added versatility
- ❑ Molded in standoffs enable easy cleaning

### MATING OPTIONS:

Mates with Adam Tech HRS and HFCS Socket Series and all other industry standard compatible connectors

### SPECIFICATIONS:

#### Material:

Insulator: Polybutylene Terephthalate (PBT), glass reinforced thermoplastic, rated UL 94V-0

Contacts: Phosphor Bronze

#### Plating:

U = 5  $\mu$ m gold nom. (optional 30  $\mu$ m) to MIL-G-45204, Type II, Grade C over 50  $\mu$ m nickel underplate to QQ-N-290, Class 2, Grade C

SG = 5  $\mu$ m gold nom. (optional 30  $\mu$ m) on mating length to MIL-G-45204, Type II, Grade C, 100  $\mu$ m tin-lead to MIL-P-81728 on solder-tails

T = 100  $\mu$ m tin-lead to MIL-P-81728, Type 1 with 50  $\mu$ m copper underplate to MIL-C-14550

#### Electrical:

Operation voltage: 250 VAC max

Current rating: .5 Amp max

Contact resistance: 20 m $\Omega$  max

Insulation resistance: 1000 M $\Omega$  min @ 1000 VDC between adjacent contacts (75° F and 50% R.H.)

Dielectric withstanding voltage: 1000 VAC min rms (sea level)

#### Mechanical:

Pin push out force: 4 lbs. min

Soldering process: Wave, Vapor-phase or IR Reflow

Environmental: Operating temperature: -65°C to +125°C

### PACKAGING:

Anti-static plastic bags

### APPROVALS AND CERTIFICATIONS:

Recognized under the component program

of Underwriters Laboratories, Inc. No. E167232

Certified by Canadian Standards Association No. LR75112



### OPTIONS:

Add as suffix to basic part number

15 = 15  $\mu$ m gold plating

30 = 30  $\mu$ m gold plating

SMT = Surface mount leads

HT = Hi-Temp insulator for IR reflow or Vapor Phase soldering process

### ORDERING INFORMATION

**HPH2 B 100 SG A**

#### SERIES INDICATOR

HPH1 = .050"

Single row pin header

HPH2 = .050"

Dual row pin header

#### POSITIONS

1 thru 32 (single row)  
4 thru 100 (dual row)

#### MATING/ SOLDER-TAIL LENGTH

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

#### PLATING

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

U = Gold Plated

T = Tin Plated

#### INSULATOR SIZE

A = 1 mm insulator thickness single or dual row (dual row .050"x.050")

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

### ORDERING INFORMATION

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

#### SERIES INDICATOR

DHPH = Dual insulator .050" centerline

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-Lead plating on solder tails

#### NO. OF ROWS

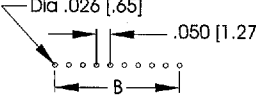
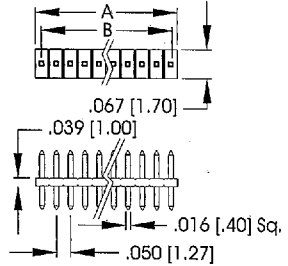
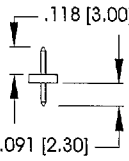
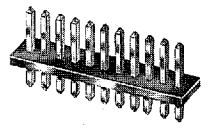
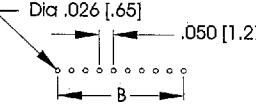
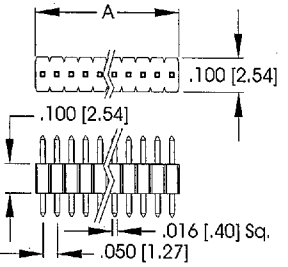
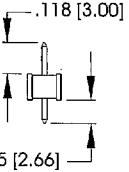
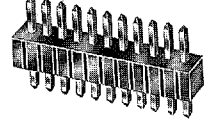
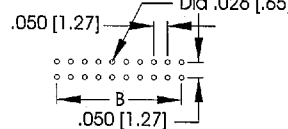
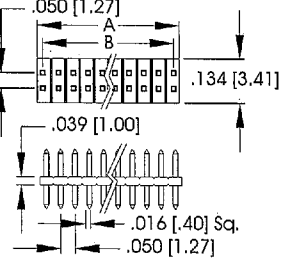
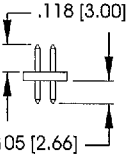
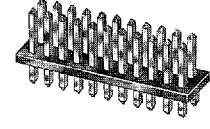
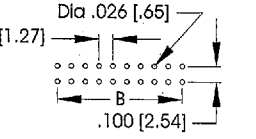
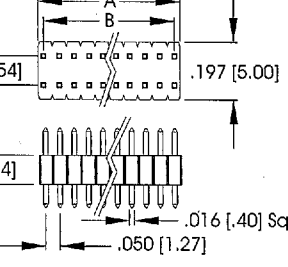
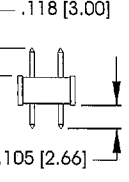
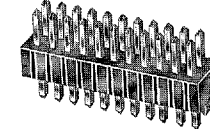
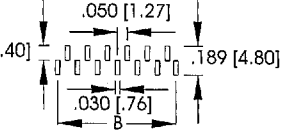
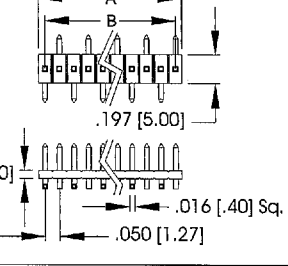
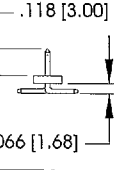
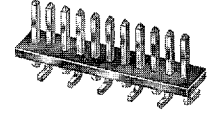
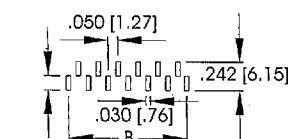
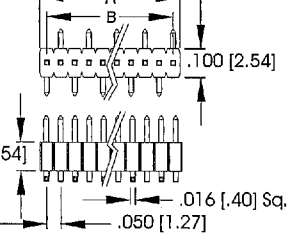
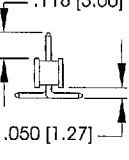
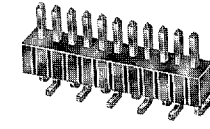
1 = Single row

2 = Dual row .050"x.100"

#### POSITIONS

1 thru 32 (single row)

4 thru 100 (dual row)

<p><b>PC Board Layout</b></p> 			 <p><b>HPH1-A</b></p>
<p><b>PC Board Layout</b></p> 			 <p><b>HPH1-B</b></p>
<p><b>PC Board Layout</b></p> 			 <p><b>HPH2-A</b></p>
<p><b>PC Board Layout</b></p> 			 <p><b>HPH2-B</b></p>
<p><b>PC Board Layout</b></p> 			 <p><b>HPH1-A-SMT</b></p>
<p><b>PC Board Layout</b></p> 			 <p><b>HPH1-B-SMT</b></p>

<p><b>Solder Pad Layout</b></p>		<p><b>HPH2-A-SMT</b></p>
<p><b>Solder Pad Layout</b></p>		<p><b>HPH2-B-SMT</b></p>
<p><b>PC Board Layout</b></p>		<p><b>HPDH-1</b></p>
<p><b>PC Board Layout</b></p>		<p><b>HPDH-2</b></p>
<p><b>Solder Pad Layout</b></p>		<p><b>HPDH-1-SM1</b></p>
<p><b>Solder Pad Layout</b></p>		<p><b>HPDH-2-SMT</b></p>