ADAM TECH

ADAM TECHNOLOGIES

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

INTRODUCTION:

Adam Tech .050" HPH Series Pin Headers are a 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 RECEPTACLES:

Mates with all industry standard .050" (1.27mm) pitch female headers with 0.4mm Sq. pins and Low profile receptacle

SPECIFICATIONS:

Material:

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

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: 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

PACKAGING:

Anti-ESD plastic bags

APPROVALS AND CERTIFICATIONS:

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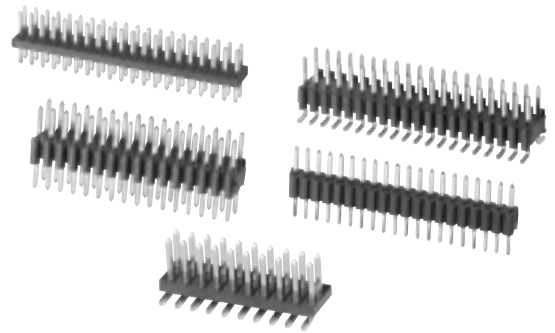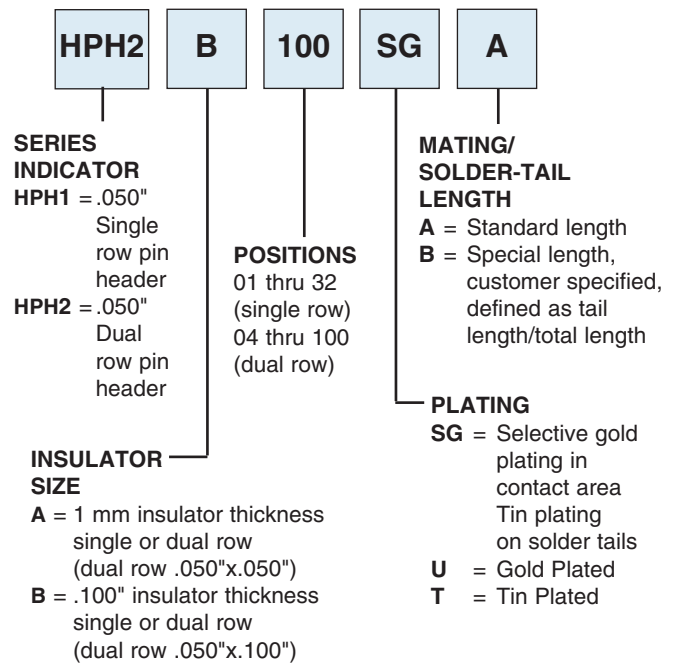CSA Certified File No. LR1578596

Pb-free Option available

RoHS COMPLIANT OPTION AVAILABLE

OPTIONS:

Add designator(s) to end of part number

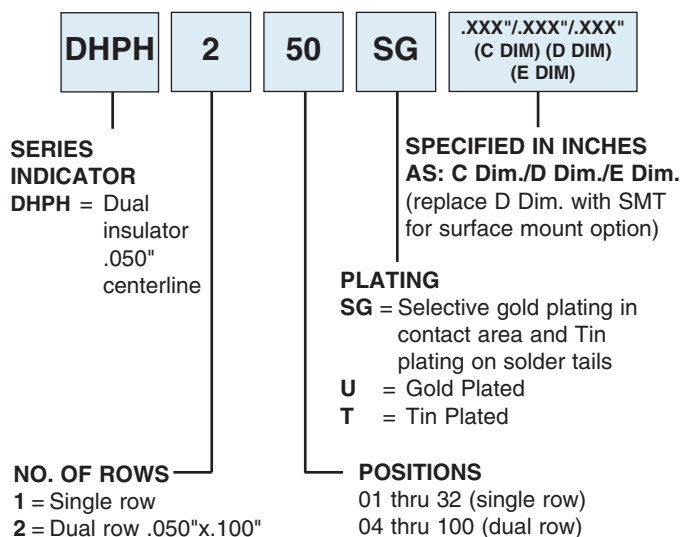|		
15	=	15 μin gold plating
30	=	30 μin gold plating
SMT	=	Surface mount leads with Hi-Temp insulator
HT	=	Hi-Temp insulator for Hi-Temp soldering processes
RC	=	RoHS compliant lead-free product with Hi-Temp insulator

HI-TEMP INSULATOR AVAILABLE

ORDERING INFORMATION

HPH2	B	100	SG	A

SERIES INDICATOR

HPH1 = .050" Single row pin header

HPH2 = .050" Dual row pin header

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")

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

PLATING

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

U = Gold Plated

T = Tin Plated

MATING/ SOLDER-TAIL LENGTH

A = Standard length

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

ORDERING INFORMATION

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

SERIES INDICATOR

DHPH = Dual insulator .050" centerline

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

PLATING

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

U = Gold Plated

T = Tin Plated

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

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

Recommended PCB Layout

B
.050 [1.27]
ø .026 [ø 0.65]

PIN 1
.071 [1.80]
A
B
.050 [1.27]
.039 [1.00]
.090 [2.30]
.118 [3.00]
.016 [0.40] SQ.

HPH1-A

Recommended PCB Layout

B
.050 [1.27]
ø .030 [ø 0.75]

PIN 1
.100 [2.54]
A
B
.050 [1.27]
.018 [0.46] SQ.
.100 [2.54]
.118 [3.00]
.105 [2.66]

HPH1-B

Recommended PCB Layout

B
.050 [1.27]
ø .026 [ø 0.65]
.050 [1.27]

PIN 2
PIN 1
.136 [3.45]
A
B
.050 [1.27]
.016 [0.40] SQ.
.039 [1.00]
.090 [2.30]
.118 [3.00]

HPH2-A

Recommended PCB Layout

B
.050 [1.27]
ø .030 [ø 0.75]
.100 [2.54]

PIN 2
PIN 1
.100 [2.54]
A
B
.050 [1.27]
.200 [5.08]
.118 [3.00]
.100 [2.54]
.018 [0.46] SQ.
.105 [2.66]

HPH2-B

Recommended PCB Layout

B
.050 [1.27]
.189 [4.80]
.094 [2.40]
.030 [.76]

PIN 1
.071 [1.80]
A
B
.050 [1.27]
.016 [0.40] SQ.
.118 [3.00]
.105 [2.68]
.039 [1.00]

HPH1-A-SMT

Recommended PCB Layout

B
.050 [1.27]
.242 [6.15]
.094 [2.40]
.030 [.76]

PIN 1
.100 [2.54]
A
B
.050 [1.27]
.118 [3.00]
.150 [3.81]
.100 [2.54]
.018 [0.46] SQ.

HPH1-B-SMT