

### INTRODUCTION

Adam Tech 2PH & D2PH Series 2.0mm Pin Headers offer a full range of fine pitched headers in a variety of configurations including Single, Dual and Three rows, Straight & Right Angle in Thru-Hole or SMT mounting. Their close tolerance .020" sq. posts are smoothly finished and taper tipped to eliminate insertion damage to the PCB or mating connector. Adam Tech 2.0mm 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 2.0mm pitch mating connectors.

### 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 .050" pitch female headers

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0  
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
Insulator Color: Black  
Contacts: Brass

#### Plating:

U = Gold flash (30u" optional) over nickel underplate overall  
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: 1,000 cycles

#### Temperature Rating:

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

### PACKAGING:

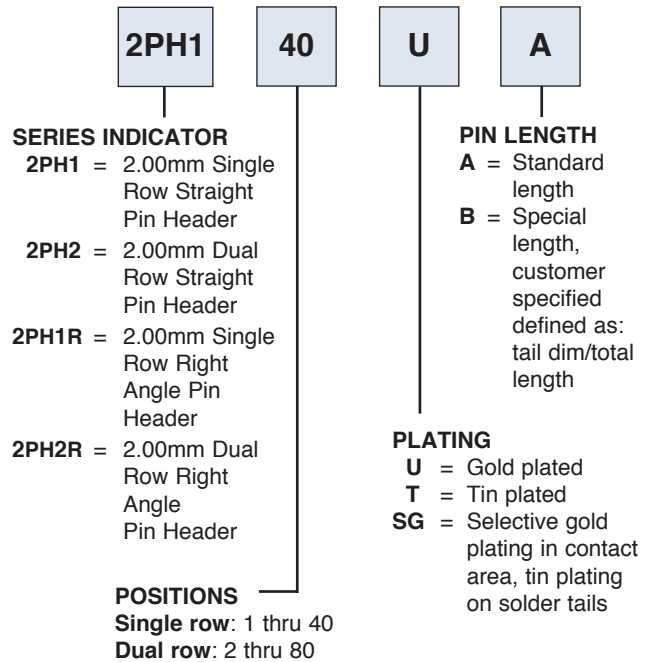
Anti-ESD plastic bags  
(Tape and Reel available for SMT option)

### APPROVALS AND CERTIFICATIONS:

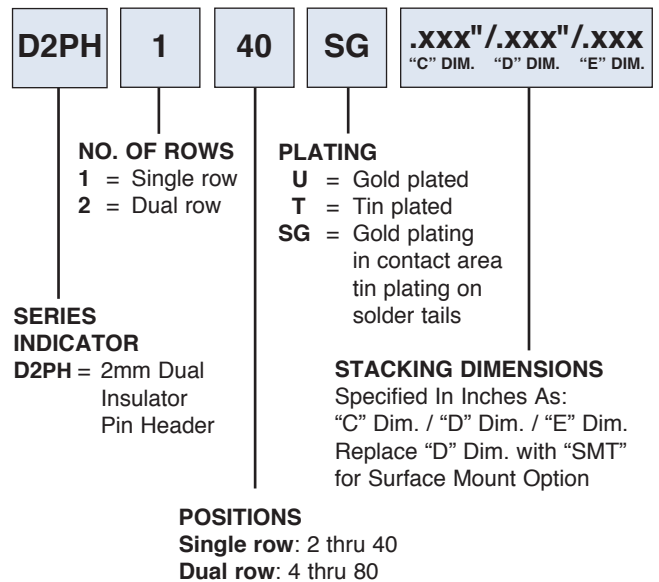
UL Recognized & CSA Certified,  
File no. E224053



### ORDERING INFORMATION

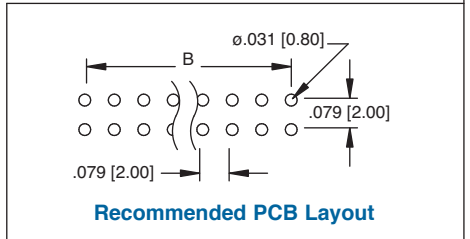
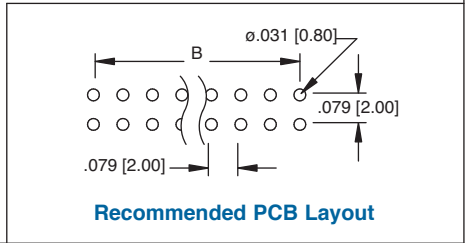
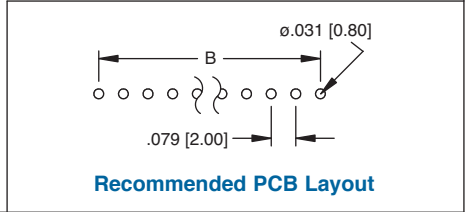
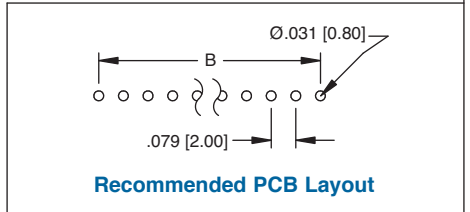


### ORDERING INFORMATION DUAL INSULATOR HEADERS



**OPTIONS:** Add designator(s) to end of part number  
**SMT** = Surface Mount leads Dual Row  
**SMT-A** = Surface Mount leads Type A  
**SMT-B** = Surface Mount Leads Type B  
**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 1.5mm insulator thickness  
**P** = Locating pegs  
**BR** = Board retention solder tails

<p>A = .079" [2.00] x No. of positions B = .079" [2.00] x No. of spaces</p>	<p><b>2PH1</b></p> <p><b>2PH1-16-UA</b></p>
<p>A = .079" [2.00] x No. of positions B = .079" [2.00] x No. of spaces</p>	<p><b>2PH1R</b></p> <p><b>2PH1R-16-UA</b></p>
<p>A = .079" [2.00] x No. of positions B = .079" [2.00] x No. of spaces</p>	<p><b>2PH2</b></p> <p><b>2PH2-32-UA</b></p>
<p>A = .079" [2.00] x No. of positions B = .079" [2.00] x No. of spaces</p>	<p><b>2PH2R</b></p> <p><b>2PH2R-32-UA</b></p>



PIN 1

TYPE B

PIN 1

TYPE A

A = .079" [2.00] x No. of positions  
B = .079" [2.00] x No. of spaces

**2PH1 (SMT)**

**2PH1-15-UA-SMT**

**Recommended PCB Layout**

**SMT-A**

**SMT-B**

PIN 2

PIN 1

A = .079" [2.00] x No. of positions  
B = .079" [2.00] x No. of spaces

**2PH2 (SMT)**

**2PH-26-UA-SMT**

**Recommended PCB Layout**

PIN 1

A = .079" [2.00] x No. of positions  
B = .079" [2.00] x No. of spaces

**D2PH-1**

**D2PH1-16-UA-.235 / .100 / .400**

**Recommended PCB Layout**

PIN 2

PIN 1

A = .079" [2.00] x No. of positions  
B = .079" [2.00] x No. of spaces

**D2PH-2**

**D2PH2-32-UA-.235 / .100 / .400**

**Recommended PCB Layout**

# Mouser Electronics

Authorized Distributor

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## ADAM TECH:

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[2PH2R-80-UA](#)