

### INTRODUCTION:

Adam Tech 2BHR Series 2.0mm Box Headers are dual row shrouded headers for use with dual row IDC female socket connectors. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Box Headers are available in Straight PCB Mount, Right Angle PCB Mount and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold. SMT versions are manufactured with a Hi-Temp insulator. Additional options include latches and custom pin lengths.

### FEATURES:

- Shrouded, insulated connection
- Superior low profile design
- Slot for IDC socket Polarization bump
- Straight PCB, Right Angle PCB and SMT versions
- Gold, Tin or Selective Gold plating
- Options include Elevated types and integral latches
- Hi-Temp insulator available

### MATING SOCKETS:

Adam Tech .079" [2.0mm] X .079" [2.0mm] dual row IDC sockets

### SPECIFICATIONS:

#### Material:

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

#### Plating:

U = Gold over nickel underplate  
 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:

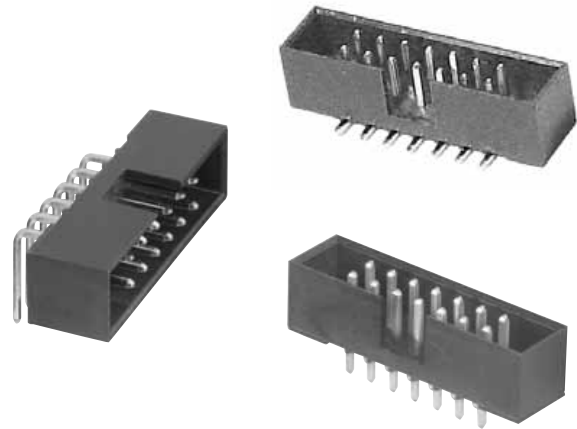
Operating temperature: -40°C to +105°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

#### PACKAGING:

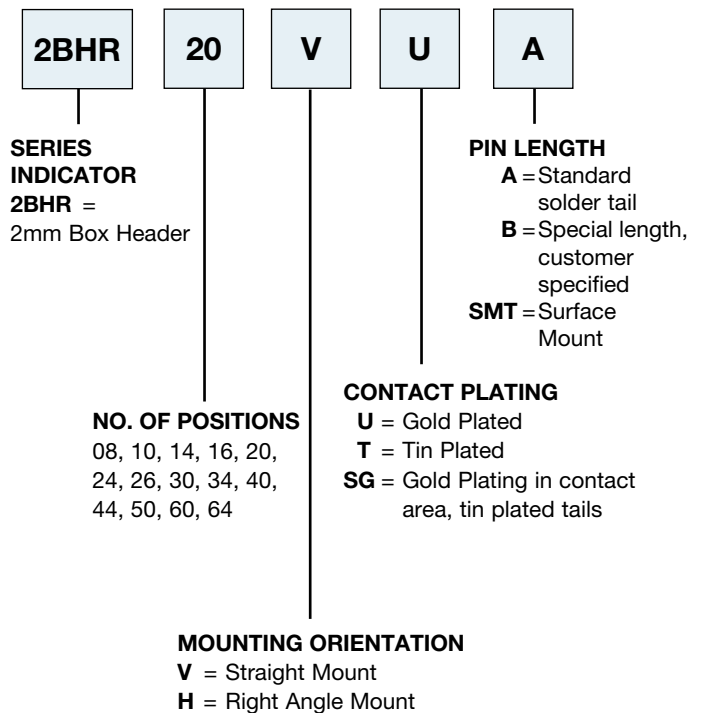
Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified,  
 File no. E224053



### ORDERING INFORMATION



This series is available in an elevated version similar to our BHRE Series as shown on pgs. 322-323

#### OPTIONS:

Add designator(s) to end of part number  
**30** = 30 μin gold plating in contact area  
**GY** = Gray color insulator  
**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)

<p> <math>A = .079 [2.00] \times \text{No. of Spaces} + .362 [9.20]</math>  <math>B = .079 [2.00] \times \text{No. of Spaces}</math> </p>	<p><b>2BHR STRAIGHT</b></p> <p><b>2BHR-14-VUA</b></p> <p><b>Recommended PCB Layout</b></p>
<p> <math>A = .079 [2.00] \times \text{No. of Spaces} + .362 [9.20]</math>  <math>B = .079 [2.00] \times \text{No. of Spaces}</math> </p>	<p><b>2BHR RIGHT ANGLE</b></p> <p><b>2BHR-14-HUA</b></p> <p><b>Recommended PCB Layout</b></p>
<p> <math>A = .079 [2.00] \times \text{No. of Spaces} + .362 [9.20]</math>  <math>B = .079 [2.00] \times \text{No. of Spaces}</math> </p>	<p><b>2BHR SMT</b></p> <p><b>2BHR-14-VUA-SMT</b></p> <p><b>Recommended PCB Layout</b></p>