

### INTRODUCTION:

Adam Tech BHR Series .100" Box Headers are a dual row shrouded header 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:

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 .100" X .100" dual row IDC sockets

### SPECIFICATIONS:

#### Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
Insulator Color: Black (Gray optional)  
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:

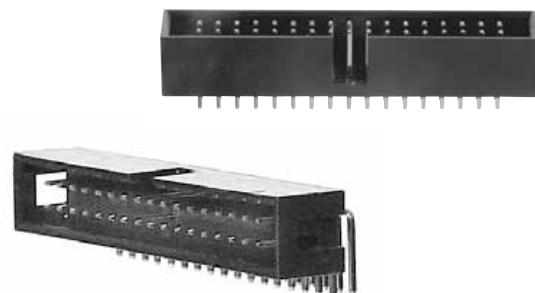
Operating temperature: -40°C to +105°C

#### PACKAGING:

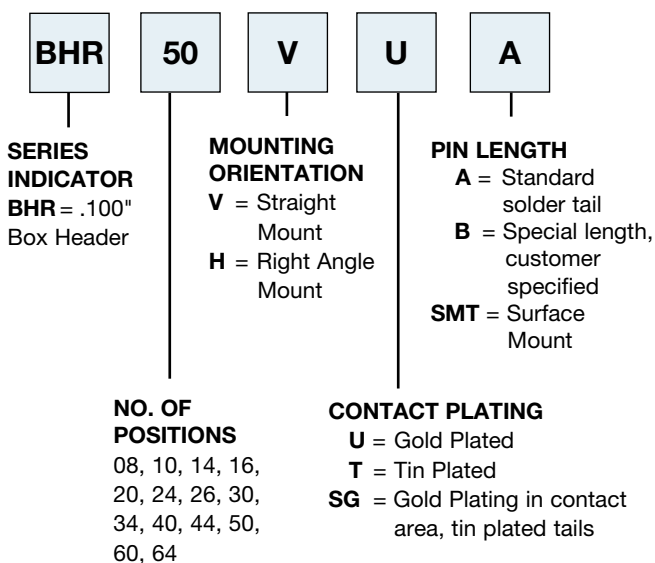
Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized & CSA Certified, File no. E224053



### ORDERING INFORMATION



### OPTIONS:

Add designator(s) to end of part number  
**LL** = Box header with long plastic latches  
**SL** = Box header with short plastic latches  
**ML** = Box header with long metal latches  
**MS** = Box header with long metal latches  
**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*)

$A = .100 [2.54] \times \text{No. of Positions} / 2 + .300 [7.62]$   
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .200 [5.08]$   
 $C = .100 [2.54] \times \text{No. of Spaces}$

**BHR**  
**STRAIGHT PCB MOUNT**

**BHR-34-VUA**

**Recommended PCB Layout**

$A = .100 [2.54] \times \text{No. of Positions} / 2 + .300 [7.62]$   
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .200 [5.08]$   
 $C = .100 [2.54] \times \text{No. of Spaces}$

**BHR**  
**RIGHT ANGLE PCB MOUNT**

**BHR-34-HUA**

**Recommended PCB Layout**

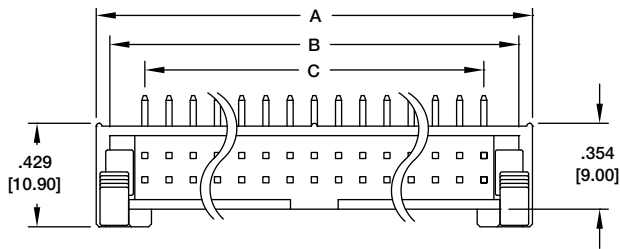
$A = .100 [2.54] \times \text{No. of Positions} / 2 + .300 [7.62]$   
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .200 [5.08]$   
 $C = .100 [2.54] \times \text{No. of Spaces}$

**BHR**  
**SURFACE MOUNT**

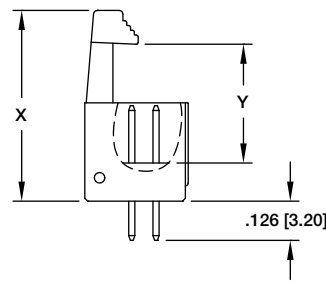
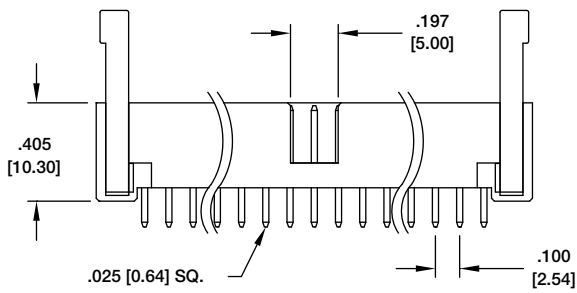
**BHR-30-VSG-SMT**

**Recommended PCB Layout**

### BHR STRAIGHT MOUNT BOX HEADER WITH LATCHES

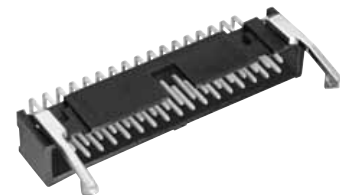
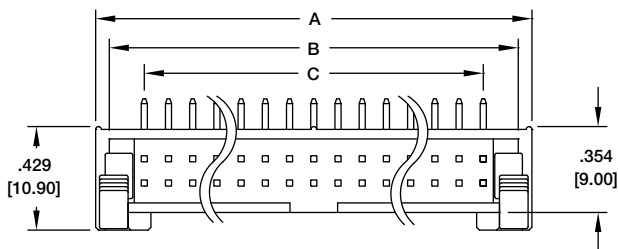


**BHR-34-VUA-ML**

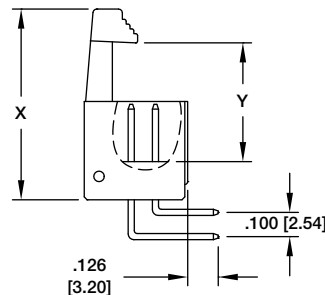
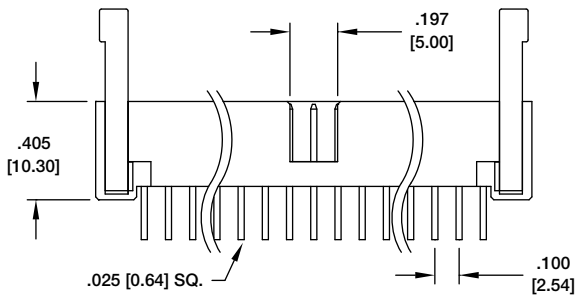


$A = .100 [2.54] \times \text{No. of Positions} / 2 + .301 [7.66]$   
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .189 [4.80]$   
 $C = .100 [2.54] \times \text{No. of Positions} / 2 - 1$

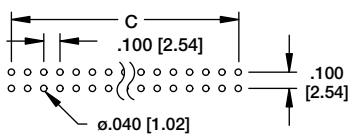
### BHR RIGHT ANGLE MOUNT BOX HEADER WITH LATCHES



**BHR-34-HUA-ML**



$A = .100 [2.54] \times \text{No. of Positions} / 2 + .301 [7.66]$   
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .189 [4.80]$   
 $C = .100 [2.54] \times \text{No. of Positions} / 2 - 1$



**Recommended PCB Layout**

LATCH TYPE	DIMENSIONS	
	X	Y
LONG LATCH (-LL)	1.035 [26.30]	.575 [14.60]
SHORT LATCH (-SL)	.901 [22.90]	.417 [10.60]