

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:

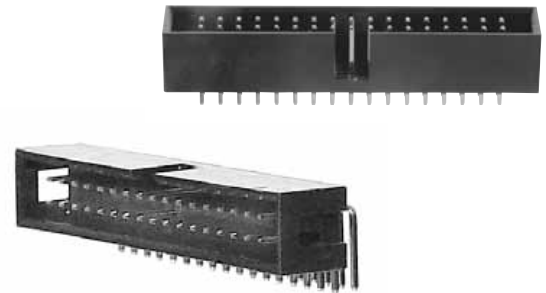
Operating temperature: -40°C to +105°C

PACKAGING:

Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION

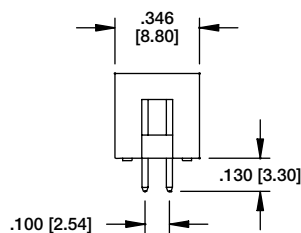
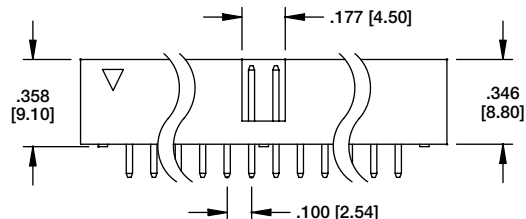
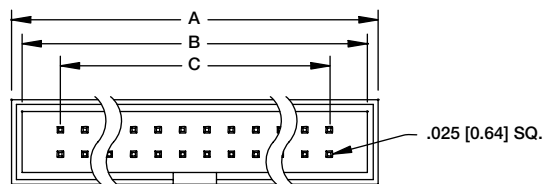
BHR	50	V	U	A
SERIES INDICATOR BHR = .100" Box Header	NO. OF POSITIONS 08, 10, 14, 16, 20, 24, 26, 30, 34, 40, 44, 50, 60, 64	MOUNTING ORIENTATION V = Straight Mount H = Right Angle Mount	CONTACT PLATING U = Gold Plated T = Tin Plated SG = Gold Plating in contact area, tin plated tails	PIN LENGTH A = Standard solder tail B = Special length, customer specified SMT = Surface Mount

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)



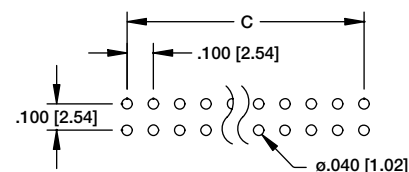
A = .100 [2.54] X No. of Positions / 2 + .300 [7.62]
 B = .100 [2.54] X No. of Positions / 2 + .200 [5.08]
 C = .100 [2.54] X No. of Spaces

BHR

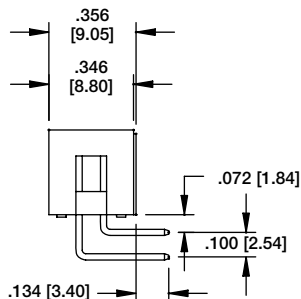
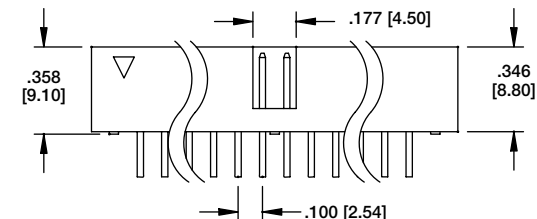
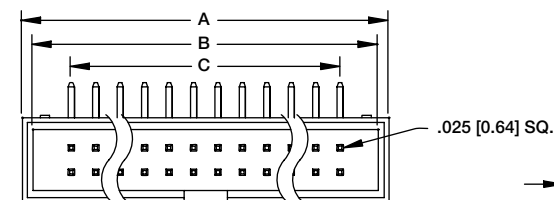
STRAIGHT PCB MOUNT



BHR-34-VUA



Recommended PCB Layout



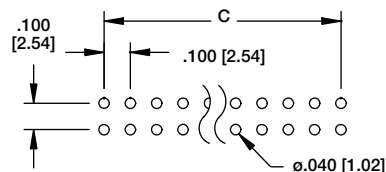
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BHR

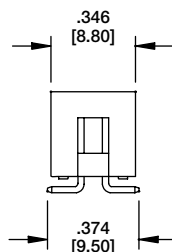
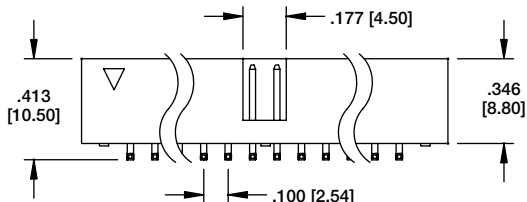
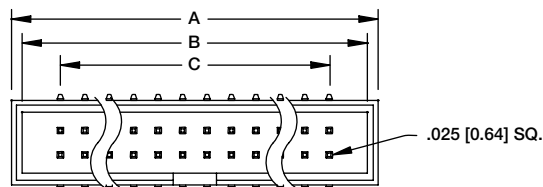
RIGHT ANGLE PCB MOUNT



BHR-34-HUA



Recommended PCB Layout

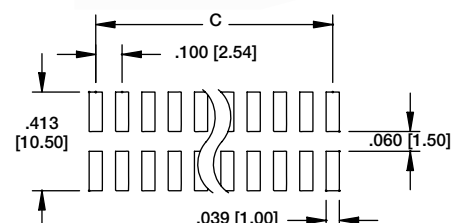


A = .100 [2.54] X No. of Positions / 2 + .300 [7.62]
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 C = .100 [2.54] X No. of Spaces

BHR
SURFACE MOUNT



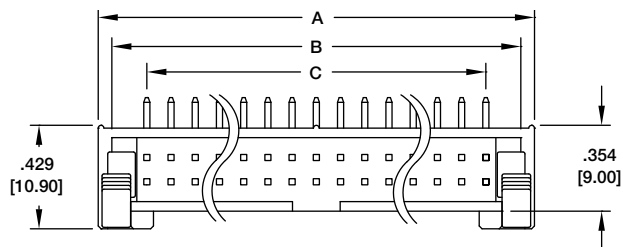
BHR-30-VSG-SMT



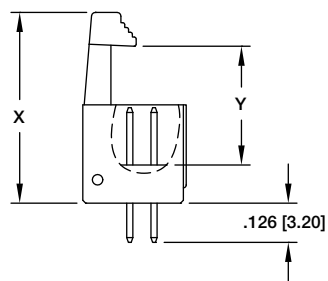
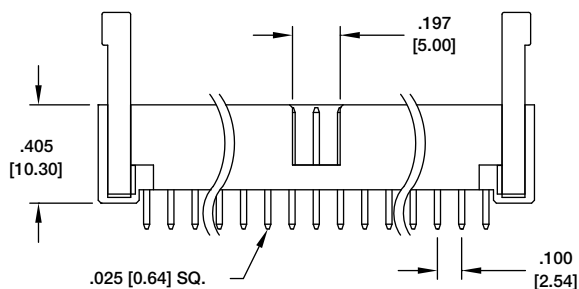
Recommended PCB Layout

BHR

STRAIGHT MOUNT BOX HEADER WITH LATCHES



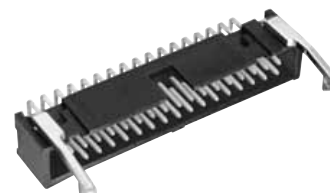
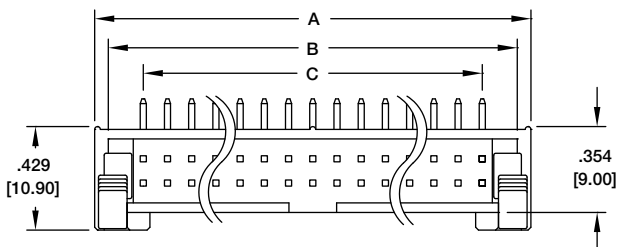
BHR-34-VUA-ML



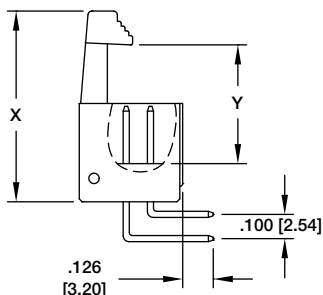
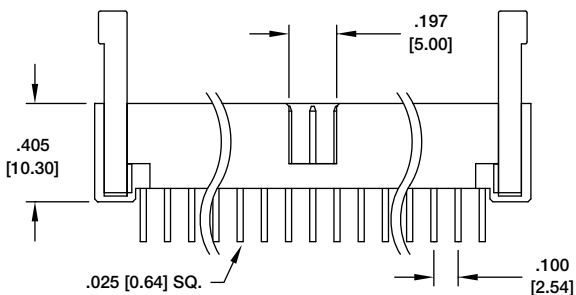
$$\begin{aligned} &= .100 [2.54] \times \text{No. of Positions} / 2 + .301 [7.66] \\ &= .100 [2.54] \times \text{No. of Positions} / 2 + .189 [4.80] \\ &= .100 [2.54] \times \text{No. of Positions} / 2 - 1 \end{aligned}$$

BHR

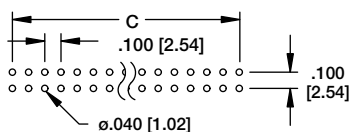
RIGHT ANGLE MOUNT BOX HEADER WITH LATCHES



BHR-34-HUA-ML



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



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]