

INTRODUCTION:

Adam Tech HMHR Series .050" Latch Headers are dual row, PCB mounted, shrouded headers with latches for use with dual row IDC female socket connectors. In addition to providing a shock and vibration proof connection the locking latches also act as ejectors to remove the mating socket. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Latch Headers are available in Straight PCB Mount, Right Angle PCB and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold

FEATURES:

Integral Latches provide Shock and Vibration Proof connection
Slot for IDC socket Polarization bump
Straight PCB, Right Angle PCB and SMT versions
Gold, Tin or Selective Gold plating
Elevated option available
Hi-Temp insulator available

MATING SOCKETS:

.050" X .050" & .050" X .100" Dual row IDC sockets

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

Plating:

U = Gold flash (30u" optional) over nickel underplate overall
SG = Gold flash (30u" optional) over nickel 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: 500V AC for 1 minute

Mechanical:

Mating durability: 500 Cycles min.

Temperature Rating:

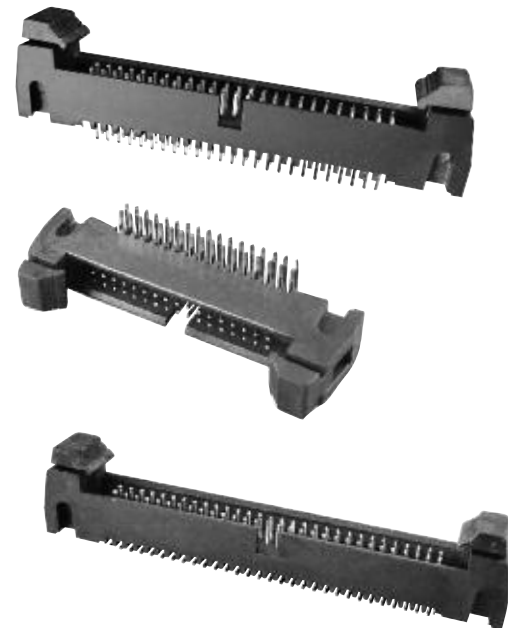
Operating temperature: -55°C to +105°C

PACKAGING:

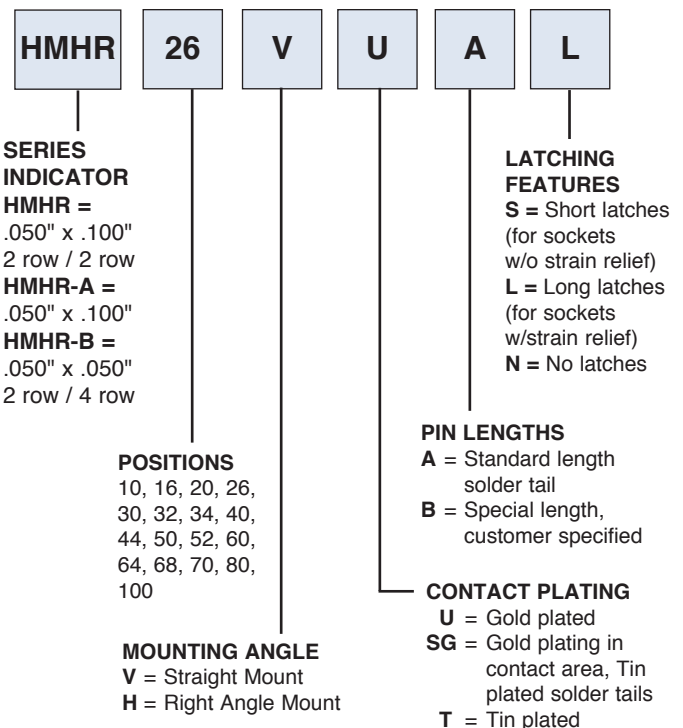
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized & CSA Certified, File no. E224053



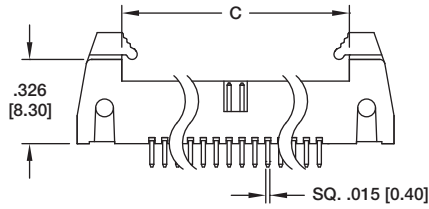
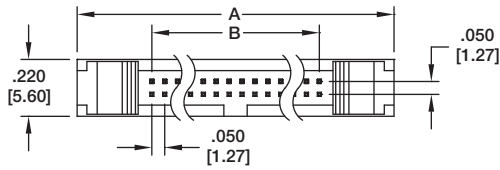
ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number
SMT = Surface mount leads Dual row with Hi-Temp insulator
HT = High-temp insulator for high-temp soldering processes

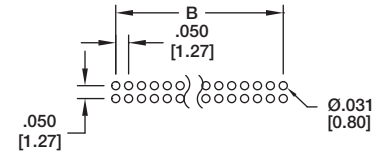
HMHR-A
.050" X .050"
STRAIGHT PCB MOUNT



A = .050 [1.27] X No. of Spaces + .233 [5.92]
 B = .050 [1.27] X No. of Spaces
 C = .050 [1.27] X No. of Spaces + .621 [15.77]

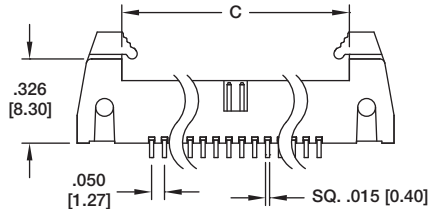
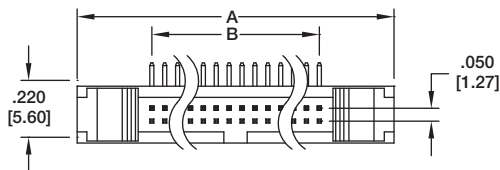


HMHR-A-50-VUAS

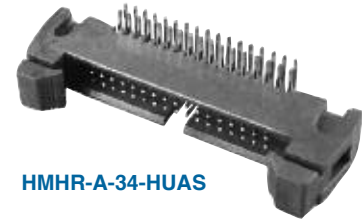


Recommended PCB Layout

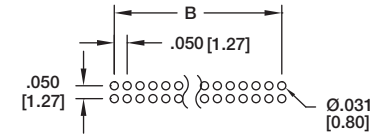
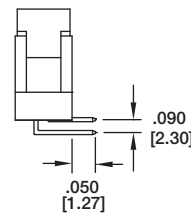
HMHR-A
.050" X .050"
RIGHT ANGLE PCB MOUNT



A = .050 [1.27] X No. of Spaces + .233 [5.92]
 B = .050 [1.27] X No. of Spaces
 C = .050 [1.27] X No. of Spaces + .621 [15.77]

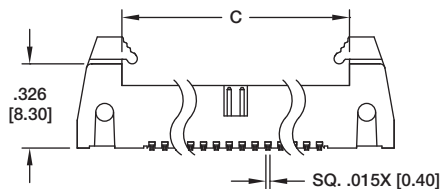
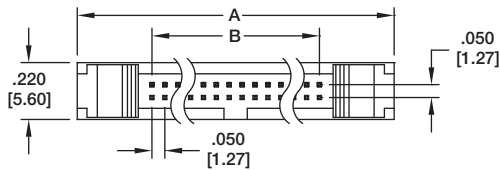


HMHR-A-34-HUAS

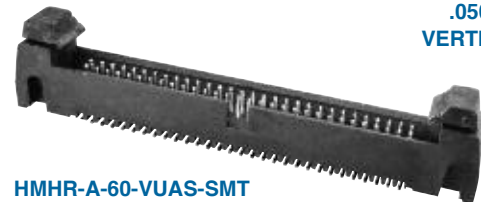


Recommended PCB Layout

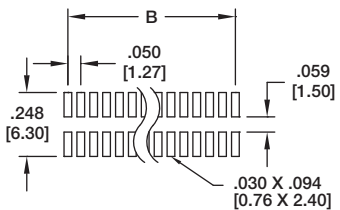
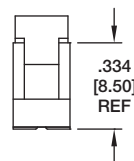
HMHR-A
.050" X .050"
VERTICAL SMT



A = .050 [1.27] X No. of Spaces + .233 [5.92]
 B = .050 [1.27] X No. of Spaces
 C = .050 [1.27] X No. of Spaces + .621 [15.77]

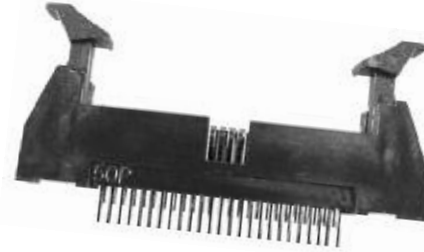
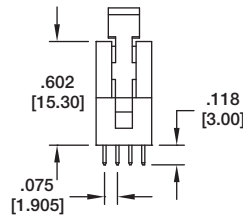
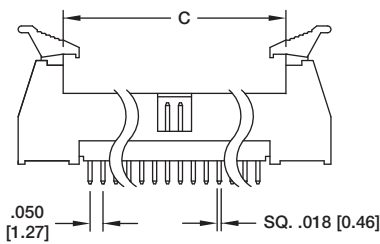
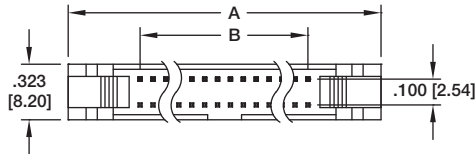


HMHR-A-60-VUAS-SMT



Recommended PCB Layout

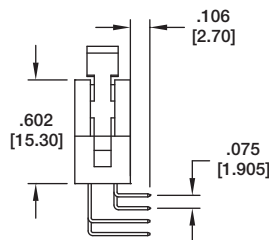
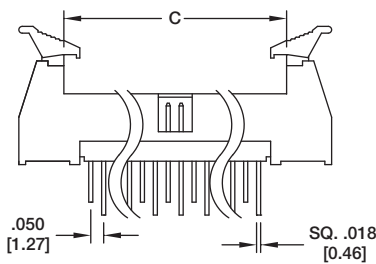
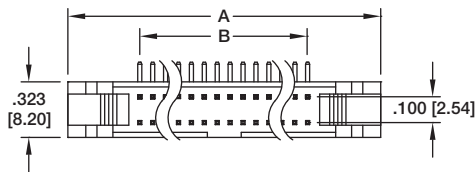
HMHR-B
.050" X .100"
STRAIGHT PCB MOUNT



HMHR-50-VUAL

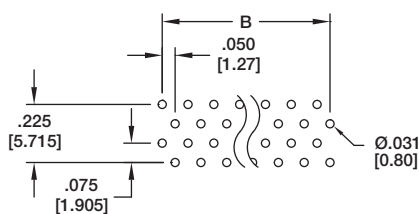
A = $.050$ [1.27] X No. of Spaces + $.306$ [7.78]
 B = $.050$ [1.27] X No. of Spaces
 C = $.050$ [1.27] X No. of Spaces + $.829$ [21.07]

HMHR-B
.050" X .100" 4 ROW
RIGHT ANGLE PCB MOUNT



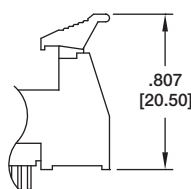
HMHR-60-HUAL

A = $.050$ [1.27] X No. of Spaces + $.306$ [7.78]
 B = $.050$ [1.27] X No. of Spaces
 C = $.050$ [1.27] X No. of Spaces + $.829$ [21.07]

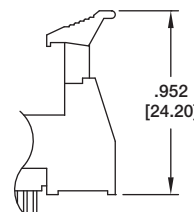


Recommended PCB Layout

Latch Options

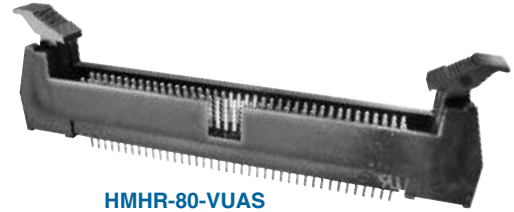
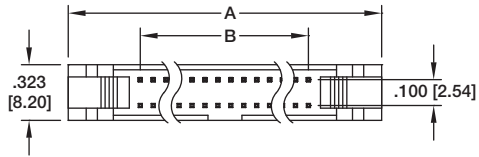


Header with Short Ejector/Latch for Sockets without Strain Reliefs

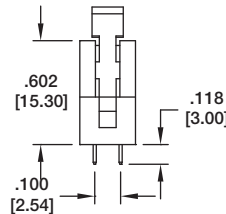
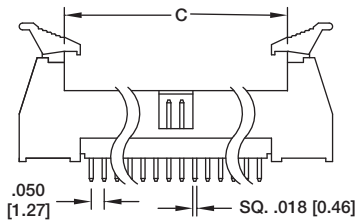


Header with Long Ejector/Latch for Sockets with Strain Reliefs

HMHR
.050" X .100"
STRAIGHT PCB MOUNT

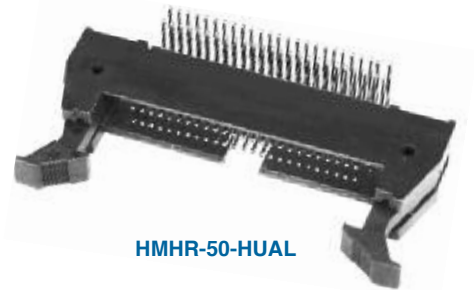
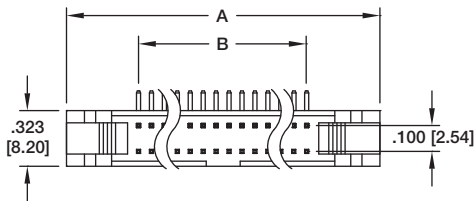


HMHR-80-VUAS

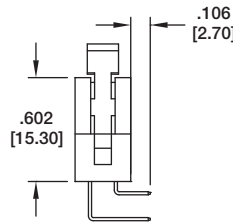
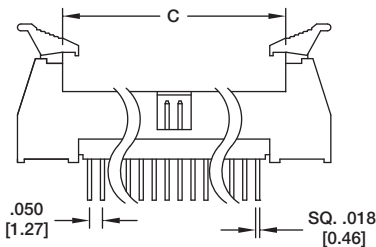


A = .050 [1.27] X No. of Spaces + .306 [7.78]
 B = .050 [1.27] X No. of Spaces
 C = .050 [1.27] X No. of Spaces + .829 [21.07]

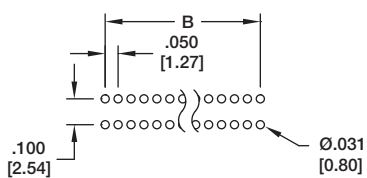
HMHR
.050" X .100"
RIGHT ANGLE PCB MOUNT



HMHR-50-HUAL

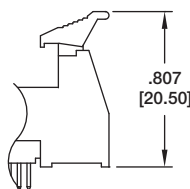


A = .050 [1.27] X No. of Spaces + .306 [7.78]
 B = .050 [1.27] X No. of Spaces
 C = .050 [1.27] X No. of Spaces + .829 [21.07]

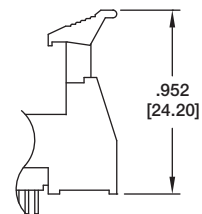


Recommended PCB Layout

Latch Options



Header with Short Ejector/Latch for Sockets without Strain Reliefs



Header with Long Ejector/Latch for Sockets with Strain Reliefs