# ADAM TECH

ADVANCED INTERCONNECT PRODUCTS AND SYSTEMS

## 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 reinforeced, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

### Plating:
U = Gold over nickel underplate overall
SG = Gold 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:
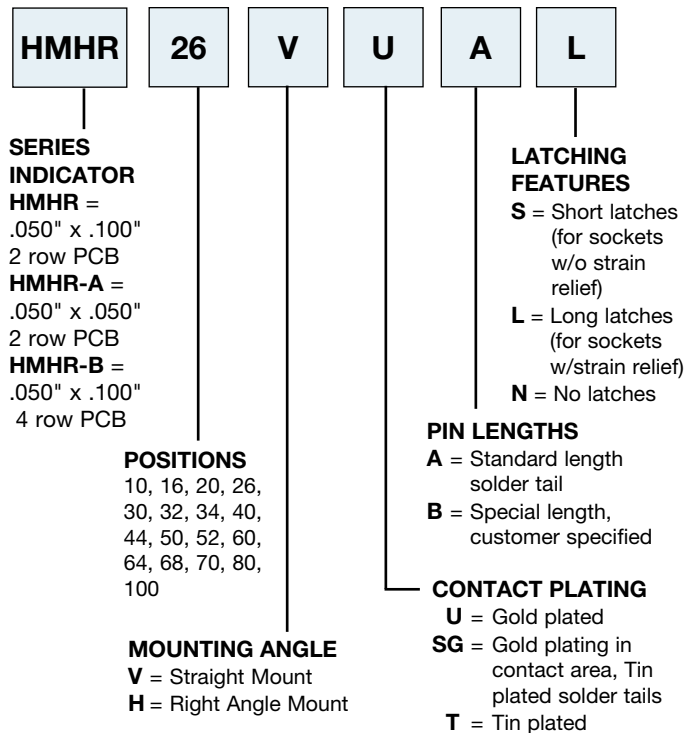Operating temperature: -55°C to +105°C

## PACKAGING:
Anti-ESD plastic trays

## SAFETY AGENCY APPROVALS:
UL Recognized & CSA Certified, File no. E224053



## ORDERING INFORMATION

| HMHR | 26 | V | U | A | L |

**SERIES INDICATOR**
**HMHR** = .050" x .100" 2 row PCB
**HMHR-A** = .050" x .050" 2 row PCB
**HMHR-B** = .050" x .100" 4 row PCB

**POSITIONS**
10, 16, 20, 26, 30, 32, 34, 40, 44, 50, 52, 60, 64, 68, 70, 80, 100

**MOUNTING ANGLE**
**V** = Straight Mount
**H** = Right Angle Mount

**CONTACT PLATING**
**U** = Gold plated
**SG** = Gold plating in contact area, Tin plated solder tails
**T** = Tin plated

**PIN LENGTHS**
**A** = Standard length solder tail
**B** = Special length, customer specified

**LATCHING FEATURES**
**S** = Short latches (for sockets w/o strain relief)
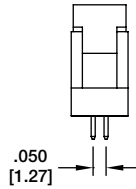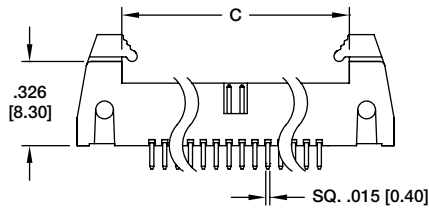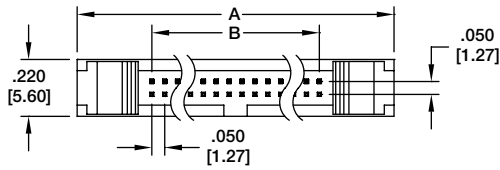**L** = Long latches (for sockets w/strain relief)
**N** = No latches

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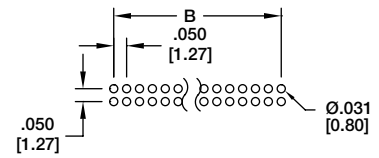**HT** = High-temp insulator for high-temp soldering processes

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

.220 [5.60]

.050 [1.27]

A

B

.050 [1.27]

C

.326 [8.30]

SQ. .015 [0.40]

.050 [1.27]

**HMHR-A-50-VUAS**

B

.050 [1.27]

.050 [1.27]

Ø.031 [0.80]

**Recommended PCB Layout**

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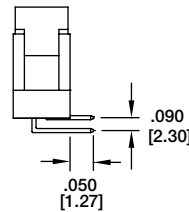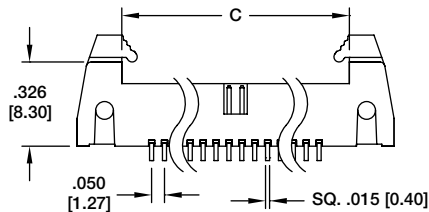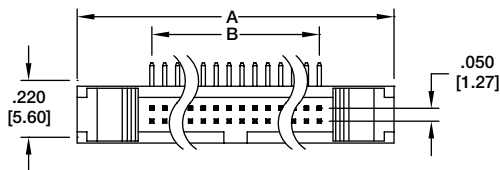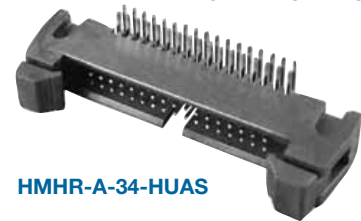C = .050 [1.27] X No. of Spaces + .621 [15.77]

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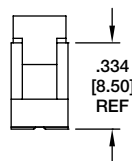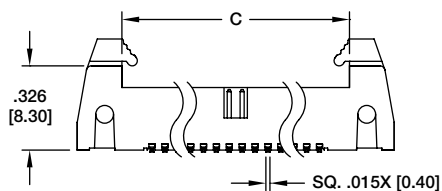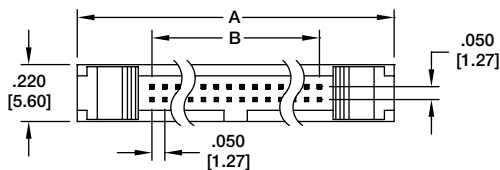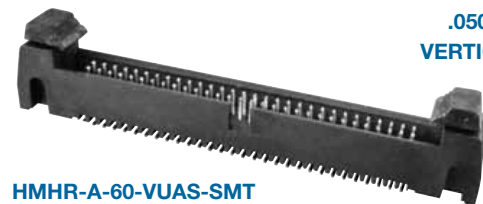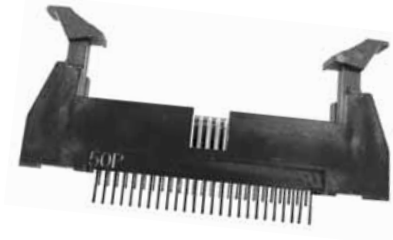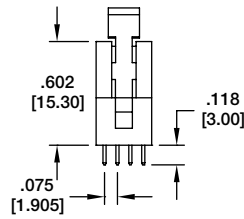#### .050" X .050"
#### RIGHT ANGLE PCB MOUNT

.220 [5.60]

.050 [1.27]

A

B

C

.326 [8.30]

.050 [1.27]

SQ. .015 [0.40]

.090 [2.30]

.050 [1.27]

**HMHR-A-34-HUAS**

B

.050 [1.27]

.050 [1.27]

Ø.031 [0.80]

**Recommended PCB Layout**

A = .050 [1.27] X No. of Spaces + .233 [5.92]
B = .050 [1.27] X No. of Spaces
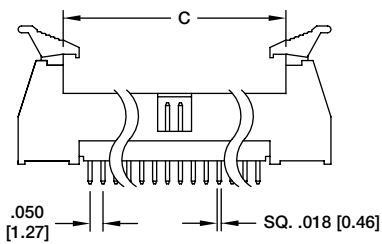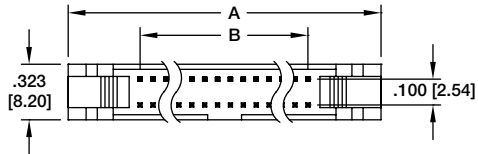C = .050 [1.27] X No. of Spaces + .621 [15.77]
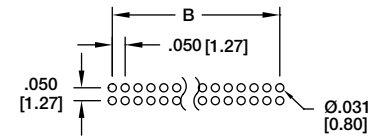
### HMHR-A
#### .050" X .050"
#### VERTICAL SMT

.220 [5.60]

.050 [1.27]

A

B

.050 [1.27]

C

.326 [8.30]

SQ. .015X [0.40]

.334 [8.50] REF

**HMHR-A-60-VUAS-SMT**

B

.050 [1.27]

.059 [1.50]

.248 [6.30]

.030 X .094 [0.76 X 2.40]

**Recommended PCB Layout**

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

.323
[8.20]

.100 [2.54]

A

B

C

.602
[15.30]

.118
[3.00]

.075
[1.905]

.050
[1.27]

SQ. .018 [0.46]
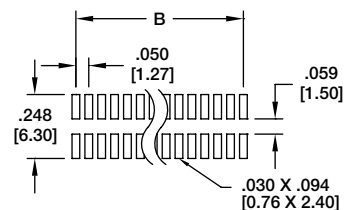
**HMHR-B-50-VUAL**
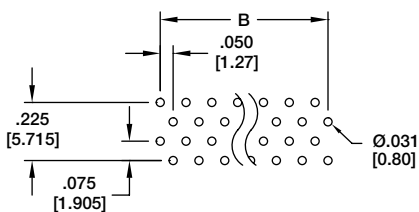
A = .050 [1.27] X No. of Spaces + .306 [7.78]
B = .050 [1.27] X No. of Spaces
C = .050 [1.27] X No. of Spaces + .829 [21.07]

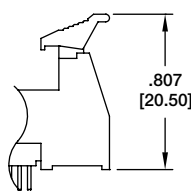**HMHR-B**
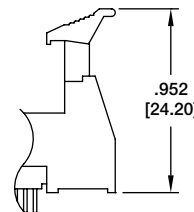**.050" X .100" 4 ROW**
**RIGHT ANGLE PCB MOUNT**

.323
[8.20]

.100 [2.54]

A

B

C

.106
[2.70]

.602
[15.30]

.075
[1.905]

.050
[1.27]

SQ. .018
[0.46]
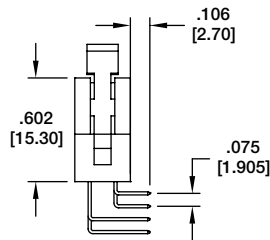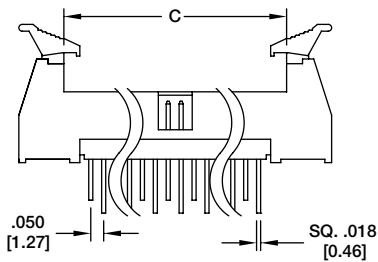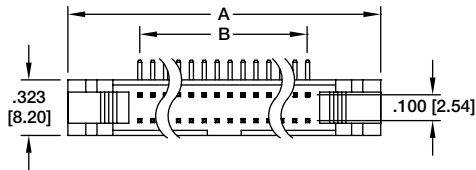
**HMHR-B-60-HUAL**

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]

B

.050
[1.27]

.225
[5.715]

.075
[1.905]

Ø.031
[0.80]

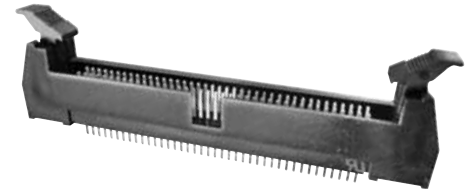**Recommended PCB Layout**

**Latch Options**

.807
[20.50]
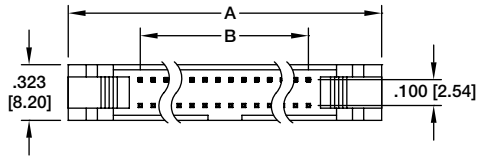
Header with
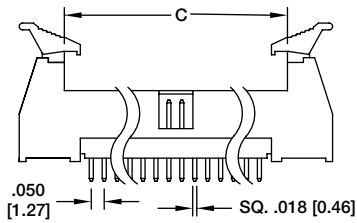Short Ejector/Latch
for Sockets without
Strain Reliefs

.952
[24.20]

Header with
Long Ejector/Latch
for Sockets with
Strain Reliefs

**ADAM TECH**

ADVANCED INTERCONNECT PRODUCTS AND SYSTEMS

## HMHR
### .050" X .100"
### STRAIGHT PCB MOUNT

.323 [8.20]

.100 [2.54]

.050 [1.27]

SQ. .018 [0.46]

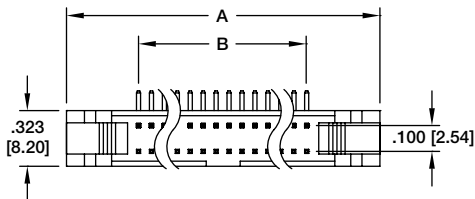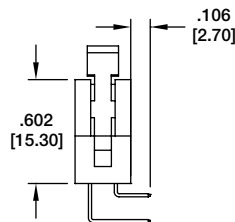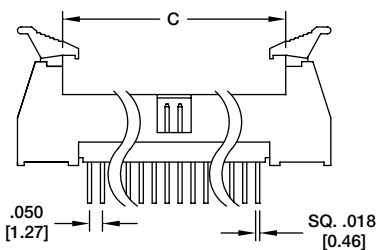.602 [15.30]

.118 [3.00]

.100 [2.54]

**HMHR-80-VUAS**
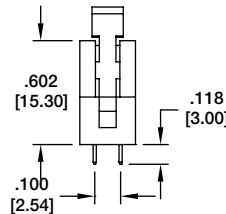
A = .050 [1.27] X No. of Spaces + .306 [7.78]
B = .050 [1.27] X No. of Spaces
C = .050 [1.27] X No. of Spaces + .829 [21.07]

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

.323 [8.20]

.100 [2.54]

.050 [1.27]

SQ. .018 [0.46]

.106 [2.70]

.602 [15.30]

**HMHR-50-HUAL**

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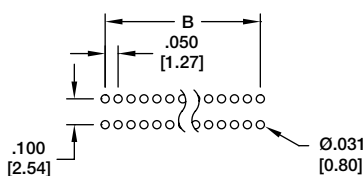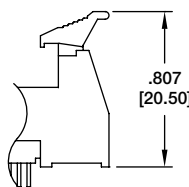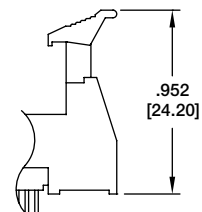C = .050 [1.27] X No. of Spaces + .829 [21.07]

B

.050 [1.27]

.100 [2.54]

Ø.031 [0.80]

**Recommended PCB Layout**

**Latch Options**

.807 [20.50]

Header with Short Ejector/Latch for Sockets without Strain Reliefs

.952 [24.20]

Header with Long Ejector/Latch for Sockets with Strain Reliefs