ADAM TECH
Adam Technologies, Inc.

.100" HEADER & HOUSING CONNECTOR SYSTEM

LHA, LHS, MTA & MTS SERIES

INTRODUCTION:
Adam Tech Friction Lock Header & Housing set was designed to attach wires to a PCB. This series features a friction locking header which mates to a polarized wire housing with crimp contacts. This set provides a secure, easy to mate connection with superior electrical characteristics.

FEATURES:
Precision .025" sq. posts
Secure friction lock
Polarized anti-vibration design
Available in 2 - 20 positions

MATING CONNECTORS:
All industry standard .100 centerline compatible latching headers and housings

SPECIFICATIONS:

Material:
Insulator: Nylon 66, rated UL94V-2
Insulator Color: White
Contacts: Phosphor bronze and Brass

Contact Plating:
Tin over copper underplate overall

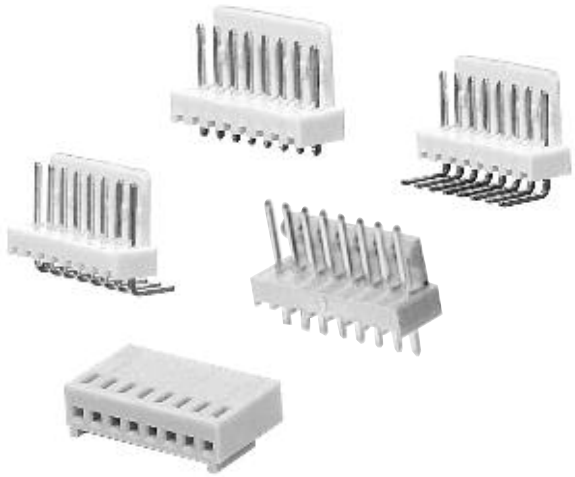
Electrical:
Operating voltage: 250V AC max.
Current rating: 3 Amps max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:
Recommended wire size: 22 to 28 Awg with .059" O.D. insulation max.

Temperature Rating:
Operating temperature: -25°C to +85°C

PACKAGING:
Anti-ESD plastic bags

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



ORDERING INFORMATION

FRICTION LOCK HEADER

LHA | 10 | TS

SERIES INDICATOR
LHA = Locking Header
LHS = Short Back Locking Header

POSITIONS
2 thru 20

PIN ANGLE
TS = Straight
TRA = Right Angle
TRB = Reverse Right Angle

HOUSING

MTA | 10

SERIES INDICATOR
MTA = Wire housing
MTS = Short back wire housing

POSITIONS
2 thru 20

CRIMP CONTACT

MTA-C | R

SERIES INDICATOR
MTA-C = Crimp contact
MTS-C = Crimp contact

PACKAGING
B = 1,000 piece loose cut
R = 6,000 pieces on reel

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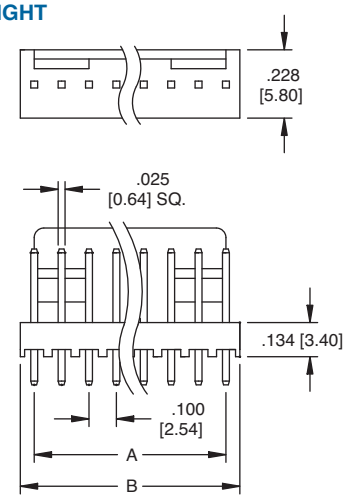
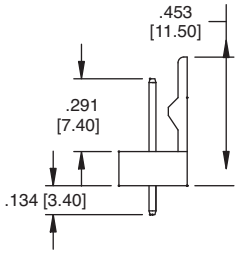
.100" HEADER & HOUSING

LHA & MTA SERIES

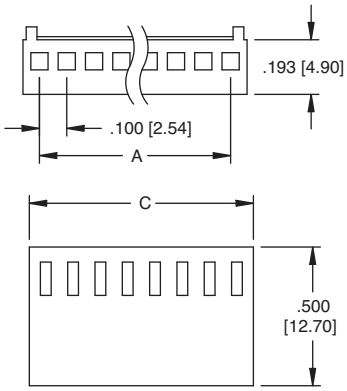
LHA
STRAIGHT



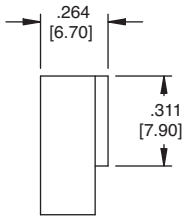
LHA-08-TS



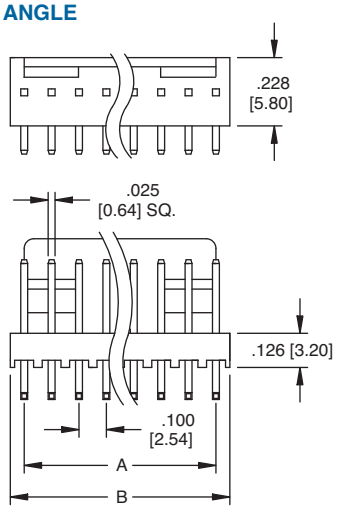
MTA
HOUSING



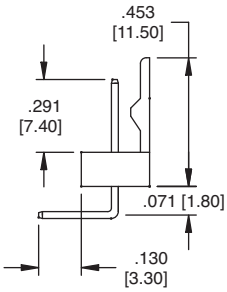
MTA-08



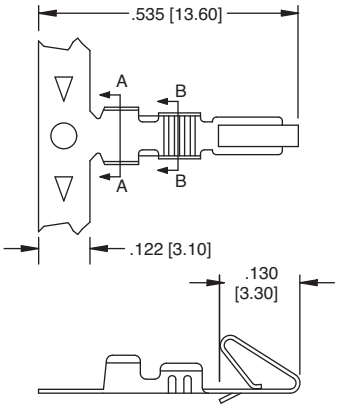
LHA
RIGHT ANGLE

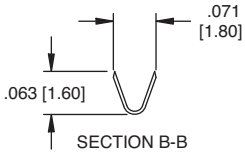


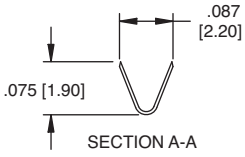
LHA-08-TRA



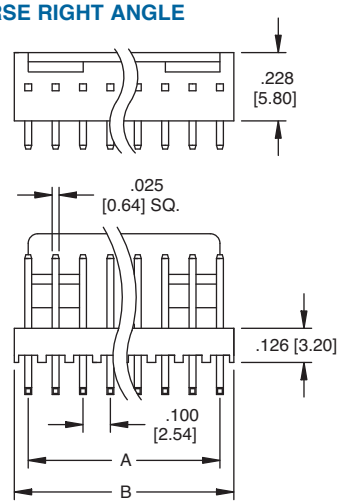
MTA-C
CONTACT



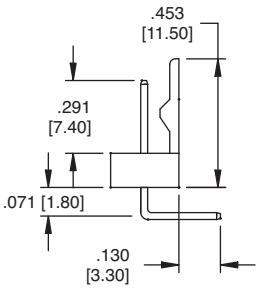


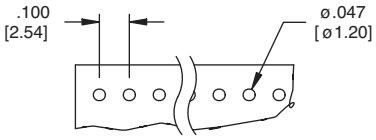


LHA
REVERSE RIGHT ANGLE



LHA-08-TRB





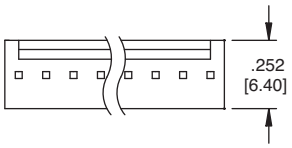
Recommended PCB Layout

A = .100 [2.54] x No. of Spaces
B = .100 [2.54] X No. of Spaces + .100 [2.54]
C = .100 [2.54] X No. of Spaces + .122 [3.11]

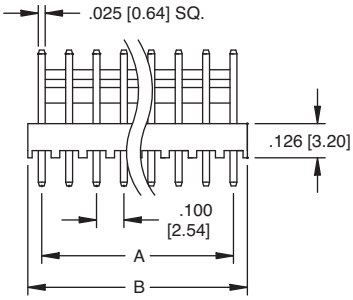
.100" HEADER & HOUSING

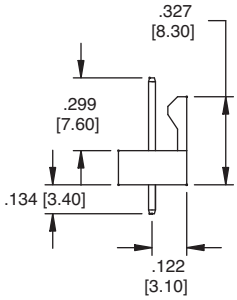
LHS & MTS SERIES

LHS
STRAIGHT PCB MOUNT



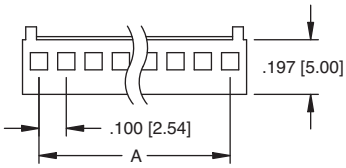
LHS-08-TS



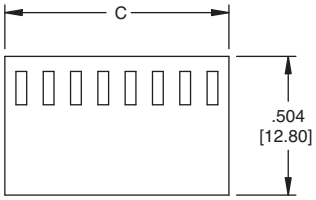


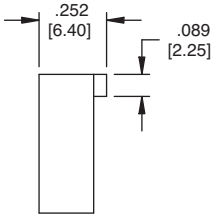
A = .100 [2.54] x No. of Spaces
B = .100 [2.54] X No. of Spaces + .104 [2.65]

MTS
HOUSING



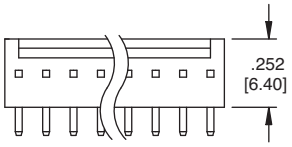
MTS-08



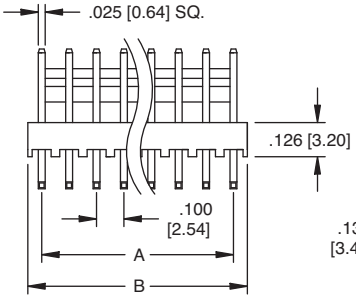


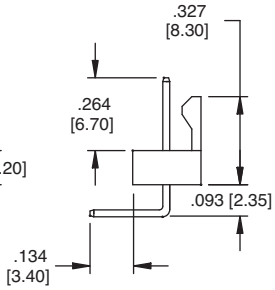
A = .100 [2.54] x No. of Spaces
B = .100 [2.54] X No. of Spaces + .104 [2.65]

LHS
RIGHT ANGLE PCB MOUNT



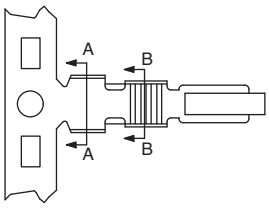
LHS-08-TRA



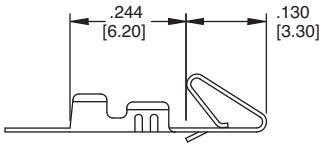


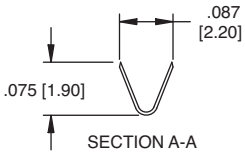
A = .100 [2.54] x No. of Spaces
B = .100 [2.54] X No. of Spaces + .104 [2.65]

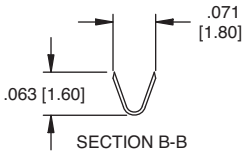
MTS-C
CRIMP CONTACTS



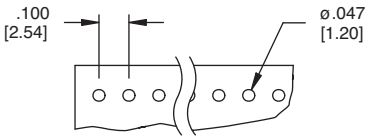
MTS-C-R







A = .100 [2.54] x No. of Spaces
B = .100 [2.54] X No. of Spaces + .104 [2.65]



Recommended PCB Layout

.156" HEADER & HOUSING

.156" [3.96] CENTERLINE

LHB, LHC, LHD & MTB SERIES

INTRODUCTION:
Adam Tech .156" Headers and Housings are two matched sets of Crimp Wire Housings and PCB mounted Latching Headers available in Straight and Right Angle orientation. This system is available with a front locking header, a rear locking header or without a locking feature. Each of the locking types are polarized to fit in only one direction with the housing. This system provides a sturdy, high current, high reliability connection with or without the polarized locking option.

FEATURES:
Matched Latching Housing & Header system
Straight, Right Angle mounting Headers
Choice of Two Latching Types
Housings feature High pressure, Low insertion force contacts

MATING CONNECTORS:
Adam Tech MTB series and all industry standard latching type .156 [3.96mm] centers

SPECIFICATIONS:

Material:
Insulator: Nylon 66, rated UL94V-2
Insulator Color: Natural
Contacts: Phosphor bronze and Brass

Contact Plating:
Tin over copper underplate overall

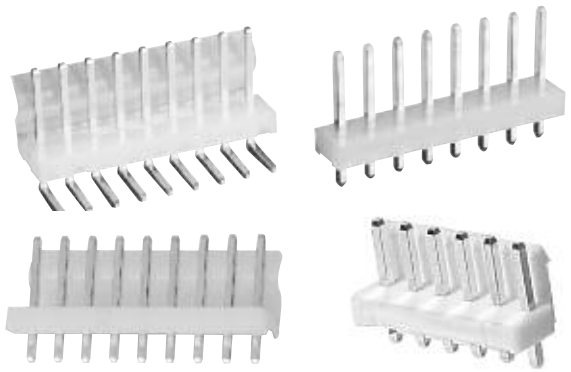
Electrical:
Operation voltage: 250V AC max.
Current rating: 5 Amp max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:
Recommended wire size: 18 to 24 Awg

Environmental:
Operating temperature: -25°C to +85°C

PACKAGING:
Anti-static plastic bags

APPROVALS AND CERTIFICATIONS:
UL Recognized & CSA Certified, File no. E224053



POWER HEADER

LHB | 12 | S | A | 1

SERIES INDICATOR
LHB = Power Header

POSITIONS
2 thru 20

PIN TYPE
S = Square Post

PIN ANGLE
A = Straight
B = Right Angle

FRICTION LOCK / POLARIZER OPTION
1 = With Lock Polarizer
2 = Without Lock Polarizer

POWER HEADER

LHC | 10 | TS

SERIES INDICATOR
LHC = Locking Header
LHD = Short Back Locking Header

POSITIONS
2 thru 20

PIN ANGLE
TS = Straight
TRA = Right Angle
TRB = Reverse Right Angle

HOUSING

MTB | 12

SERIES INDICATOR
MTB = Wire housing
MTC = Latching Housing

POSITIONS
2 thru 20

CRIMP CONTACT

MTB-C | R

SERIES INDICATOR
MTB-C = Crimp contact
MTC-C = Crimp contact

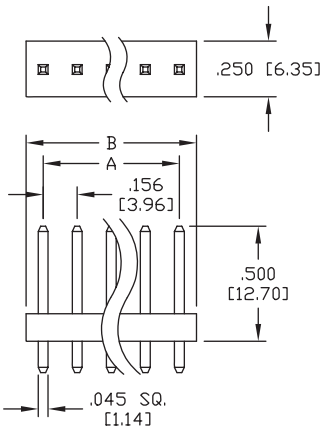
PACKAGING
B = 1000 pieces loose cut
R = 6000 pieces on reel

.156" HEADER & HOUSING

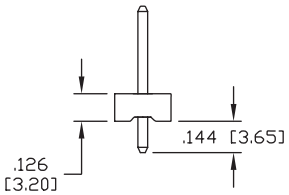
.156" [3.96] CENTERLINE

LHB & MTB SERIES

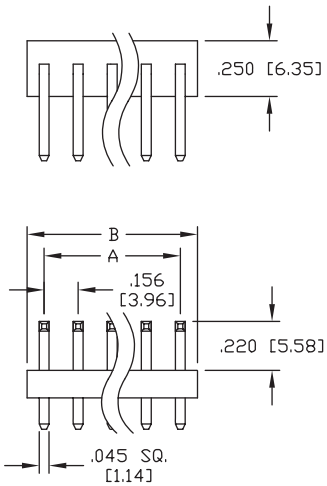
LHB
STRAIGHT WITHOUT BACK



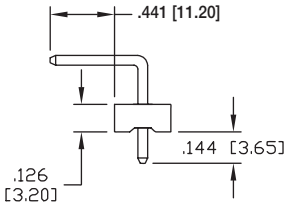
LHB-08-SA2



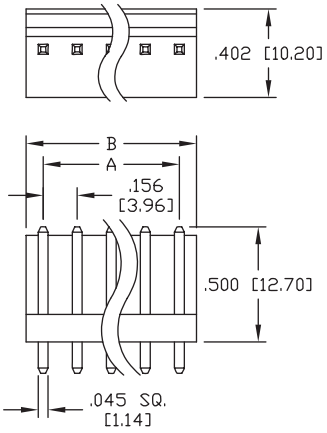
LHB
RIGHT ANGLE WITHOUT BACK

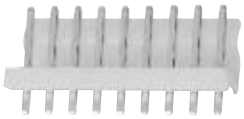


LHB-08-SB2

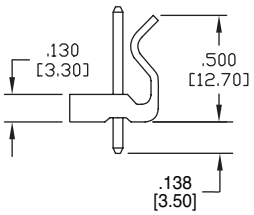


LHB
STRAIGHT WITH BACK

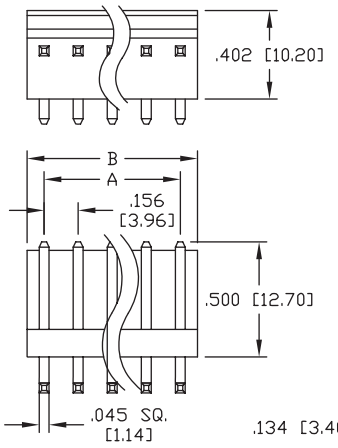




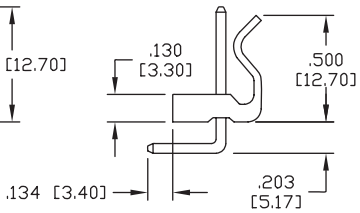
LHB-09-SA1



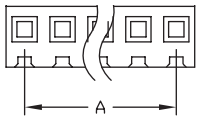
LHB
RIGHT ANGLE WITH BACK

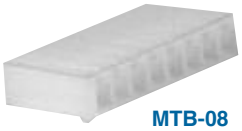


LHB-09-SB1

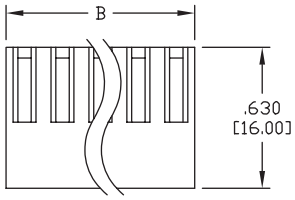


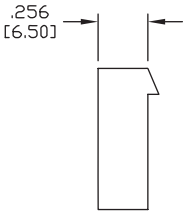
MTB
CRIMP HOUSING





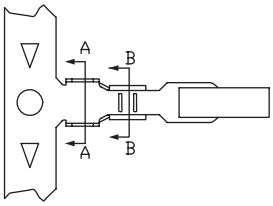
MTB-08

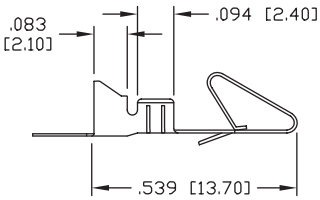


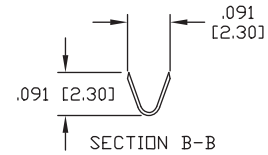


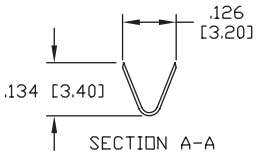
A = .156 [3.96] x No. of Spaces
B = .156 [3.96] X No. of Positions

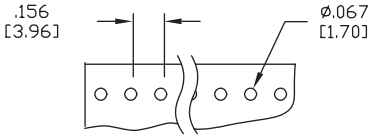
MTB
CRIMP CONTACT











Recommended PCB Layout

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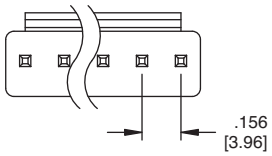
.156" HEADER & HOUSING

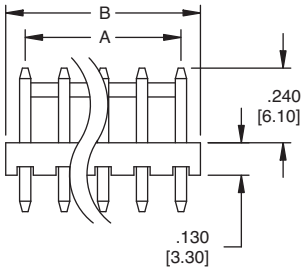
.156" [3.96] CENTERLINE

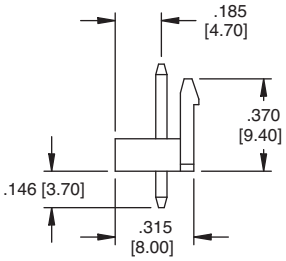
LHC & MTC SERIES

LHC
STRAIGHT WITH REAR LOCK

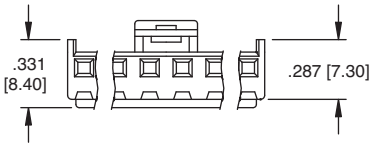


LHC-06-TS

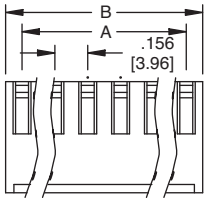


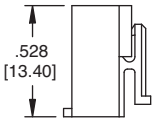


MTC
HOUSING

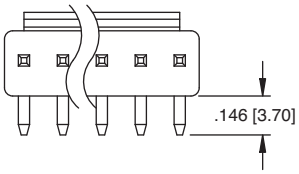


MTC-06

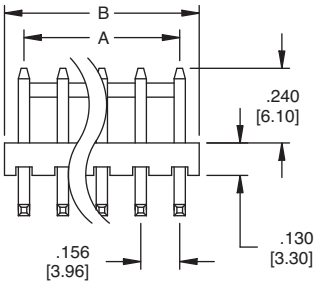


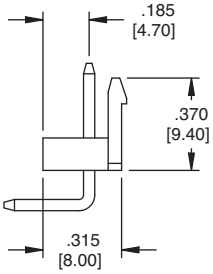


LHC
RIGHT ANGLE WITH REAR LOCK



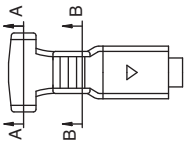
LHC-06-TRA

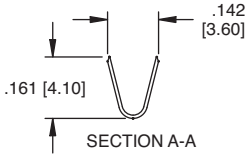


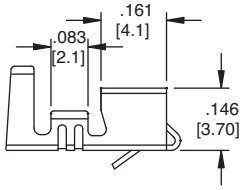


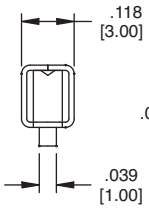
MTC-C
CRIMP CONTACTS

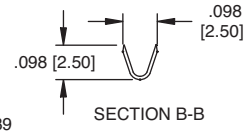
MTC-C-R



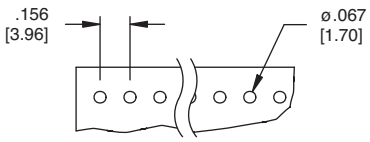








A = .156 [3.96] x No. of Spaces
B = .156 [3.96] X No. of Spaces + .156 [3.96]



Recommended PCB Layout

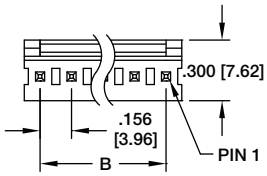
.156" HEADER & HOUSING

.156" [3.96] CENTERLINE

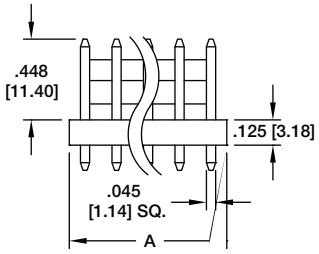
LHD & MTB SERIES

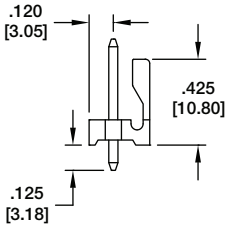
LHD STRAIGHT PBC MOUNT

A = .156 [3.96] x No. of Positions
B = .156 [3.96] x No. of Spaces



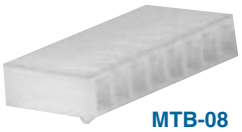
LHD-06-TS



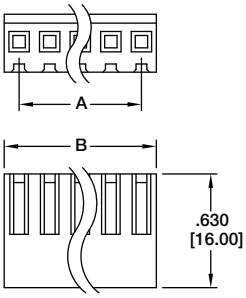


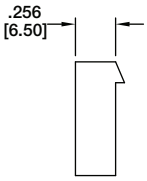
MTB HOUSING

A = .156 [3.96] x No. of Positions
B = .156 [3.96] x No. of Spaces



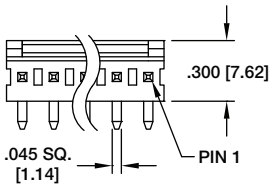
MTB-08



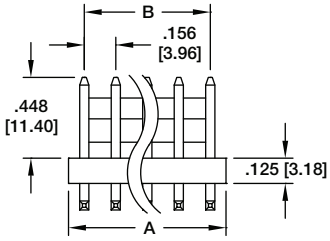


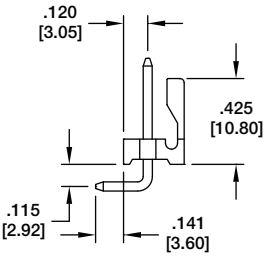
LHD RIGHT ANGLE PCB MOUNT

A = .156 [3.96] x No. of Positions
B = .156 [3.96] x No. of Spaces



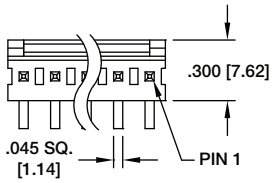
LHD-06-TRA



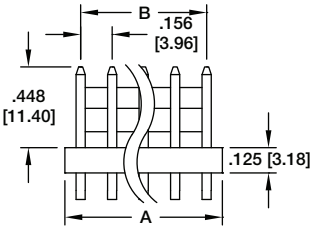


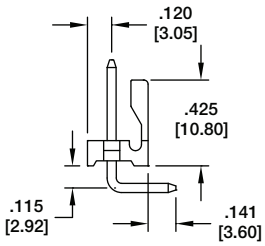
LHD REVERSE RIGHT ANGLE PCB MOUNT

A = .156 [3.96] x No. of Positions
B = .156 [3.96] x No. of Spaces



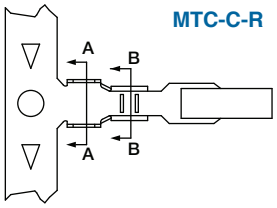
LHD-06-TRB

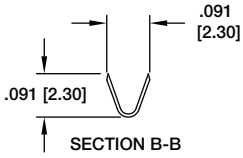


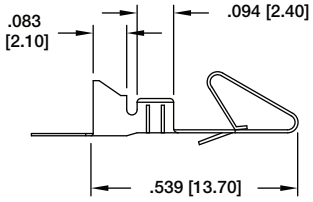


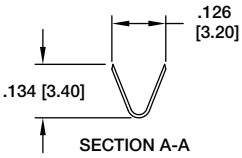
MTC-C CRIMP CONTACT

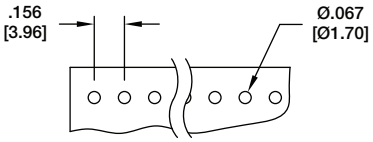
MTC-C-R











Recommended PCB Layout