ADAM TECH
ADVANCED INTERCONNECT PRODUCTS AND SYSTEMS

0.80mm SUB-MICRO HEADERS
1.00mm MICRO HEADERS
.031" [0.80] & .039" [1.00] CENTERLINE
MPH & SPH / MRS & SRS

INTRODUCTION:
Adam Tech 0.8mm and 1.00mm Pin Header and Female Header series is a fine pitch, low profile, dual row, PCB mounted connector set intended for limited space applications or where total weight is a factor. Our specially tooled insulators and contacts maintain consistent high quality through our automated production processes. Each series is available in thru-hole PCB or SMT mounting and plated tin, gold or selective gold as specified.

FEATURES:
0.8mm and 1.0mm versions
Pin Header and Female Header set
Lightweight and Compact
Hi Temp Insulators

MATING OPTIONS:
Mates with all industry standard 0.8mm & 1.0mm pitch headers and female headers

SPECIFICATIONS:

Material:
Standard Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

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 Ratings:
Operating temperature: -40°C to +105°C
Max process temp: 230°C for 30 ~ 60 seconds
(260°C for 10 seconds)
Soldering process temperature: 260°C

PACKAGING:
Anti-ESD plastic bags or tubes

APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

RoHS COMPLIANT
HI-TEMP INSULATOR AVAILABLE

0.8mm MALE ORDERING INFORMATION

SPH2 — 20 — SG — SMT

SERIES INDICATOR
SPH2 = 0.8mm Dual Row Female Header

POSITIONS
04 thru 80

PLATING
U = Gold plated
SG = Selectively gold plated
T = Tin plated

MOUNTING
BLANK = Thru-hole
SMT = Surface mount

0.8mm FEMALE ORDERING INFORMATION

SRS2 — 20 — SG — SMT

SERIES INDICATOR
SRS2 = 0.8mm Dual Row Female Header

POSITIONS
04 thru 80

PLATING
U = Gold plated
SG = Selectively gold plated
T = Tin plated

MOUNTING
BLANK = Thru-hole
SMT = Surface mount

1.0mm MALE ORDERING INFORMATION

MPH2 — 20 — SG — SMT

SERIES INDICATOR
MPH2 = 1.0mm Dual Row Pin Header

POSITIONS
04 thru 80

PLATING
U = Gold plated
SG = Selectively gold plated
T = Tin plated

MOUNTING
BLANK = Thru-hole
SMT = Surface mount

1.0mm FEMALE ORDERING INFORMATION

MRS2 — 20 — SG — SMT

SERIES INDICATOR
MRS2 = 1.0mm Dual Row Female Header

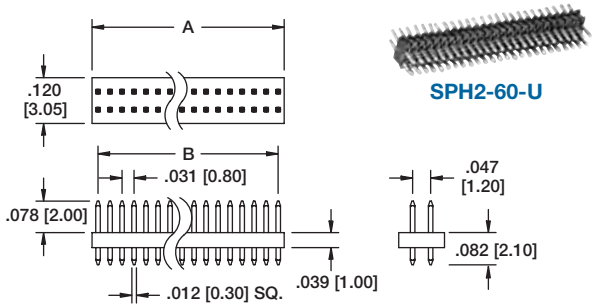
POSITIONS
04 thru 80

PLATING
U = Gold plated
SG = Selectively gold plated
T = Tin plated

MOUNTING
BLANK = Thru-hole
SMT = Surface mount

0.8mm SUB-MICRO HEADERS
1.00mm MICRO HEADERS
.031" [0.8] & .039" [1.00] CENTERLINE
MPH & SPH / MRS & SRS

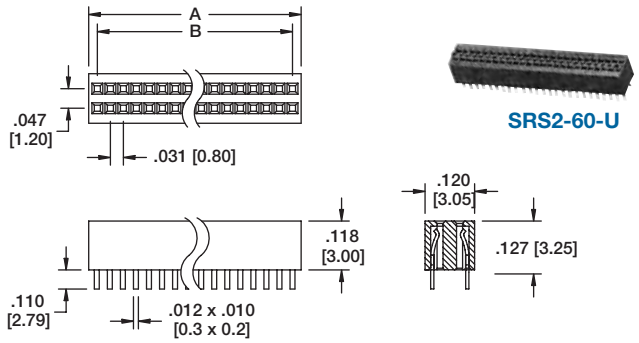
0.8mm SUB-MICRO HEADERS



SPH2-60-U

A = .031 [.80] X No of Positions Per Row
B = .031 [.80] X No of Spaces Per Row

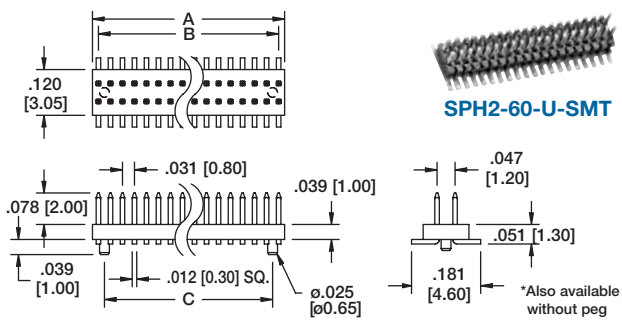
0.8mm Male Header SPH2 Series



SRS2-60-U

A = .031 [.80] X No of Positions Per Row
B = .031 [.80] X No of Spaces Per Row

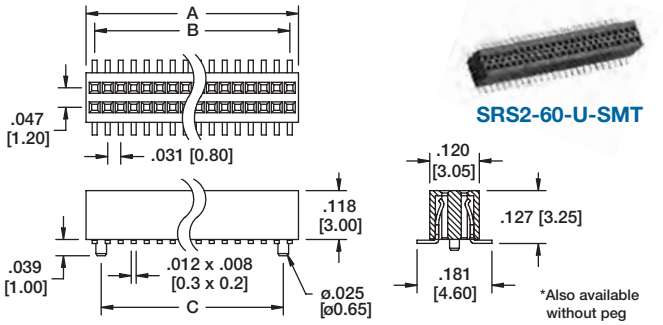
0.8mm Female Header SRS2 Series



SPH2-60-U-SMT

A = .031 [.80] X No of Positions Per Row
B = .031 [.80] X No of Spaces Per Row
C = .031 [.80] X No of Spaces - 1

0.8mm SMT Male Header SPH2 SMT Series

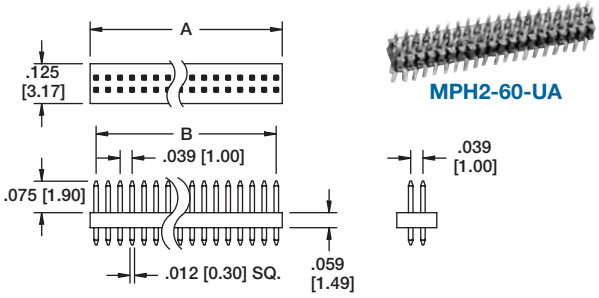


SRS2-60-U-SMT

A = .031 [.80] X No of Positions Per Row
B = .031 [.80] X No of Spaces Per Row
C = .031 [.80] X No of Spaces - 1

0.8mm SMT Female Header SRS2 SMT Series

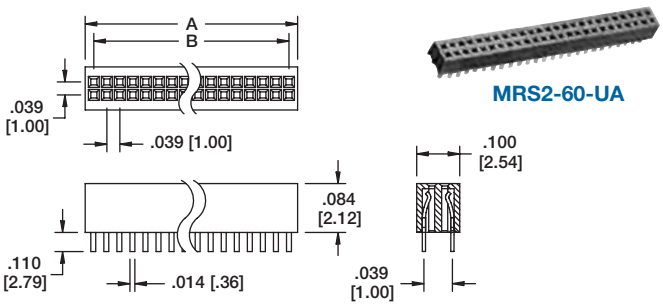
1.0mm MICRO HEADERS



MPH2-60-UA

A = .039 [1.00] X No of Positions Per Row
B = .039 [1.00] X No of Spaces Per Row

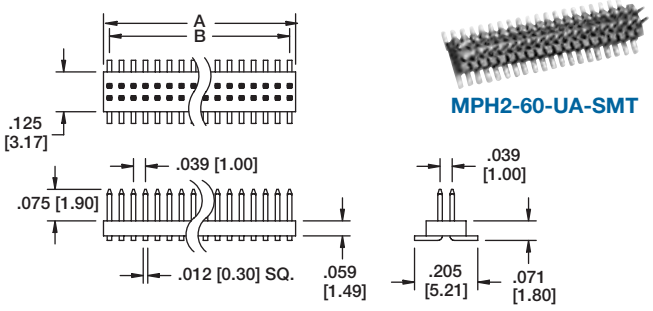
1.0mm Male Header MPH2 Series



MRS2-60-UA

A = .039 [1.00] X No of Positions Per Row
B = .039 [1.00] X No of Spaces Per Row

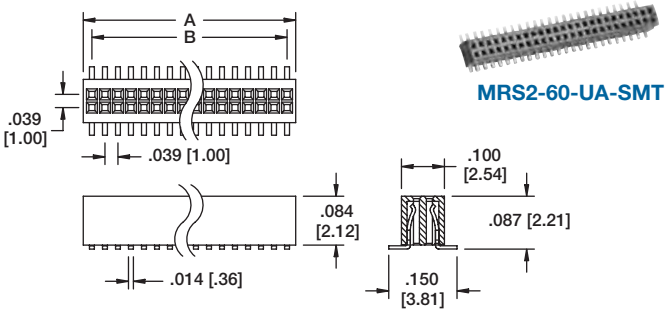
1.0mm Female Header MRS2 Series



MPH2-60-UA-SMT

A = .039 [1.00] X No of Positions Per Row
B = .039 [1.00] X No of Spaces Per Row

1.0mm SMT Male Header MPH2-SMT Series



MRS2-60-UA-SMT

A = .039 [1.00] X No of Positions Per Row
B = .039 [1.00] X No of Spaces Per Row

1.0mm SMT Female Header MRS2-SMT Series

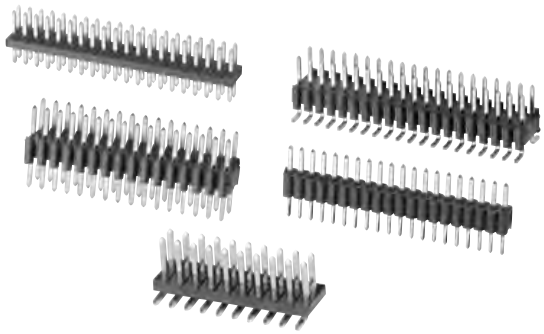
ADAM TECH

ADVANCED INTERCONNECT PRODUCTS AND SYSTEMS

.050" PIN HEADERS

.050" [1.27] CENTERLINE

HPH SERIES



INTRODUCTION:
Adam Tech .050" HPH Series Pin Headers are fine pitched, low profile, PCB mounted pin headers intended for limited space applications or where overall size is a factor. Our specially tooled insulators and contacts offer consistent high quality through automated production processes. This series offers an extensive range of single, dual and stacked versions. Each is available in thru-hole PCB or SMT mounting with choice of tin, gold or selective gold plating.

FEATURES:
Single and Dual Row
Stacked, Thru-Hole and SMT mounting
Pin Header and Female Header sets
Lightweight and Compact
Hi Temp Insulator available
Choice of plating

MATING OPTIONS:
Mates with all industry standard .050" [1.27mm] pitch female headers designed for use with 0.4mm Sq. pins and Low profile receptacle

SPECIFICATIONS:

Material:
Standard Hi-Temp insulator: Nylon 6T or Nylon 46, rated UL94V-0
Insulator Color: Black
Contacts: Brass or Phosphor Bronze

Plating:
U = Gold over nickel underplate overall
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
Soldering process temperature: 260°C

PACKAGING:
Anti-ESD plastic bags

APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

HI-TEMP INSULATOR AVAILABLE

Pb RoHS COMPLIANT

ORDERING INFORMATION

HPH2	B	100	SG	A

SERIES INDICATOR
HPH1 = 050" Single row Pin Header
HPH2 = .050" Dual Row Pin Header

INSULATOR SIZE
A = 1.00mm insulator thickness single or dual row (dual row .050"x.050")
B = .100" insulator thickness single or dual row (dual row .050"x.100")

POSITIONS
01 thru 50 (single row)
04 thru 100 (dual row)

PLATING
SG = Selective gold plating in contact area Tin plating on solder tails
U = Gold Plated
T = Tin Plated

MATING/ SOLDER-TAIL LENGTH
A = Standard length
B = Special length, customer specified, defined as tail length/total length

ORDERING INFORMATION

DHPH	2	50	SG	.XXX"/.XXX"/.XXX" (C DIM) (D DIM) (E DIM)

SERIES INDICATOR
DHPH = Dual insulator .050" centerline Pin Header

NO. OF ROWS
1 = Single row .050"
2 = Dual row .050"x.100"

POSITIONS
01 thru 50 (single row)
04 thru 100 (dual row)

PLATING
SG = Selective gold plating in contact area and Tin plating on solder tails
U = Gold Plated
T = Tin Plated

SPECIFIED IN INCHES AS: C DIM./D DIM./E DIM.
(replace D Dim. with SMT for surface mount option)

OPTIONS:
Add designator(s) to end of part number
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)
SMT = Dual Row Surface Mount leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
SMT-A = Single Row Surface Mount Leads Type A
SMT-B = Single Row Surface Mount Leads Type B
P = Optional locating peg

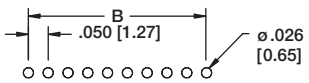
.050" PIN HEADERS

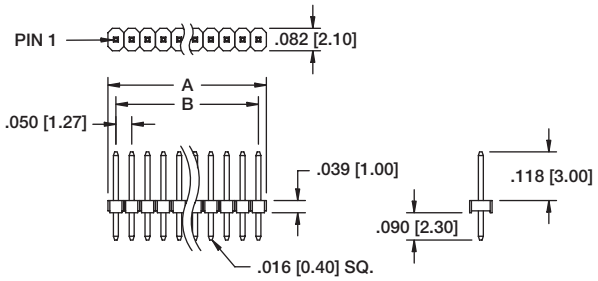
.050" [1.27] CENTERLINE

HPH SERIES

A = .050 [1.27] X No. of Positions
B = .050 [1.27] X No. of Spaces

Recommended PCB Layout



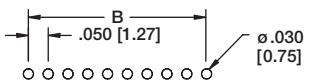


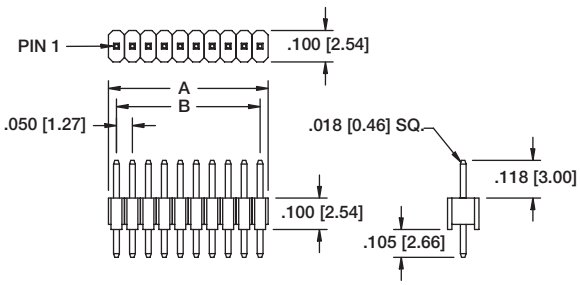
HPH1-A
SINGLE ROW STRAIGHT
WITH 1.00mm INSULATOR

HPH1-A-20-UA

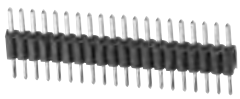
A = .050 [1.27] X No. of Positions
B = .050 [1.27] X No. of Spaces

Recommended PCB Layout





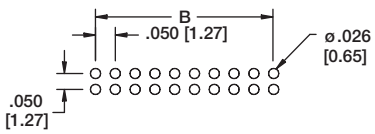
HPH1-B
SINGLE ROW STRAIGHT
WITH .100" INSULATOR

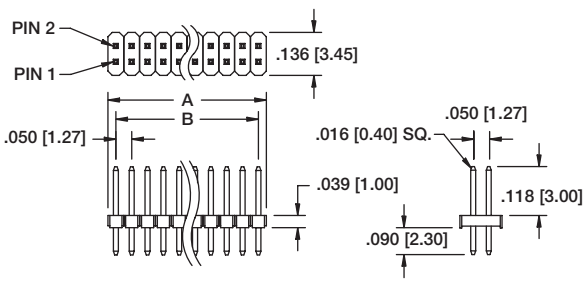


HPH1-B-20-UA

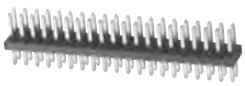
A = .050 [1.27] X No. of Positions per row
B = .050 [1.27] X No. of Spaces

Recommended PCB Layout





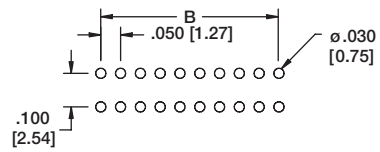
HPH2-A
DUAL ROW STRAIGHT
WITH 1.00mm INSULATOR

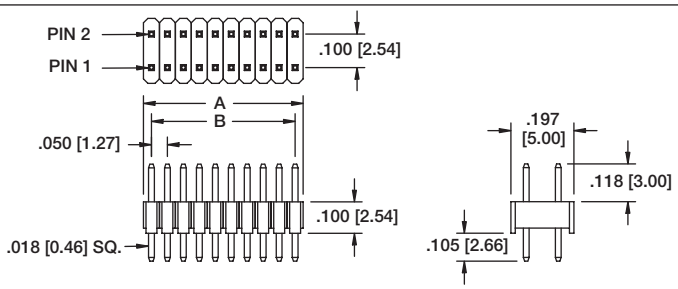


HPH2-A-40-UA

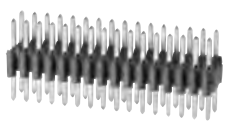
A = .050 [1.27] X No. of Positions per row
B = .050 [1.27] X No. of Spaces

Recommended PCB Layout





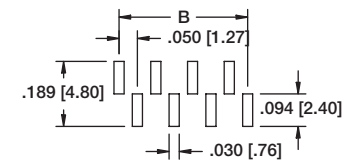
HPH2-B
DUAL ROW STRAIGHT
WITH .100" INSULATOR

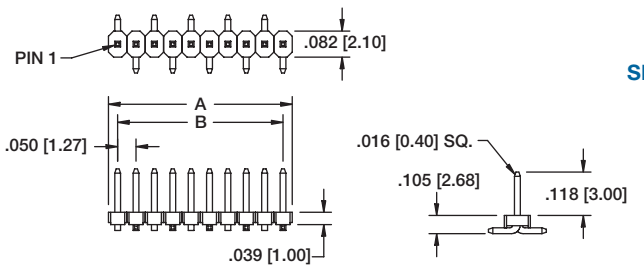


HPH2-B-40-UA

A = .050 [1.27] X No. of Positions
B = .050 [1.27] X No. of Spaces

Recommended PCB Layout



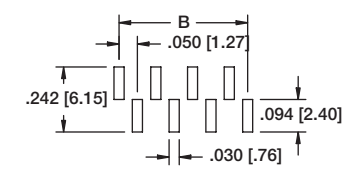


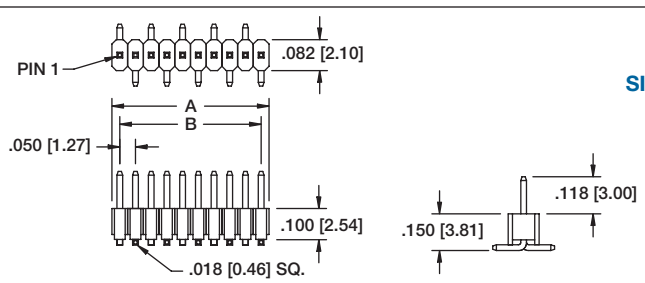
HPH1-A (SMT)
SINGLE ROW STRAIGHT SMT
WITH 1.00mm INSULATOR

HPH1-A-20-UA-SMT

A = .050 [1.27] X No. of Positions
B = .050 [1.27] X No. of Spaces

Recommended PCB Layout





HPH1-B (SMT)
SINGLE ROW STRAIGHT SMT
WITH .100" INSULATOR

HPH1-B-20-UA-SMT

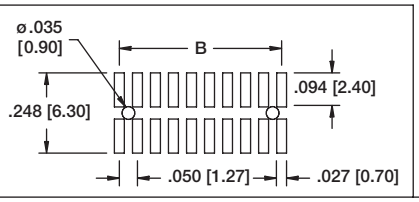
.050" PIN HEADERS

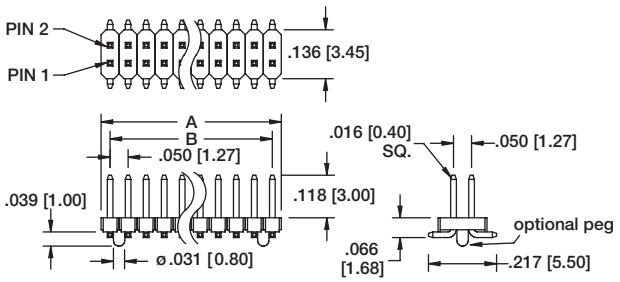
.050" [1.27] CENTERLINE

HPH SERIES

A = .050 [1.27] X No. of Positions per row
B = .050 [1.27] X No. of Spaces

Recommended PCB Layout





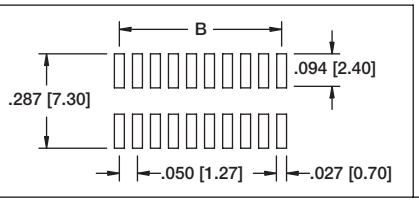
HPH2-A (SMT)

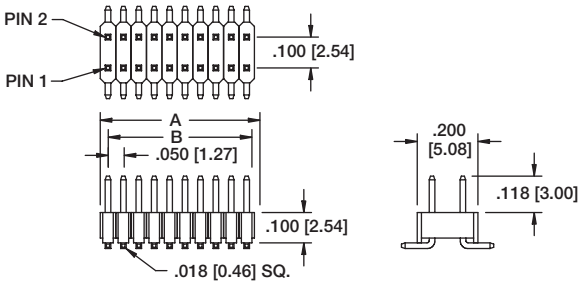
HPH2-A-40-UA-SMT

Dwg. shown with optional peg

A = .050 [1.27] X No. of Positions per row
B = .050 [1.27] X No. of Spaces

Recommended PCB Layout



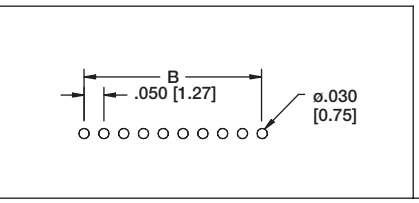


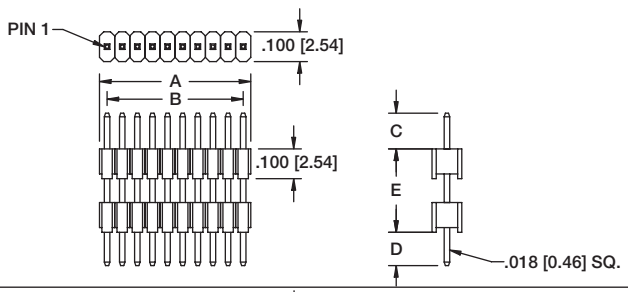
HPH2-B (SMT)

HPH2-B-40-UA-SMT

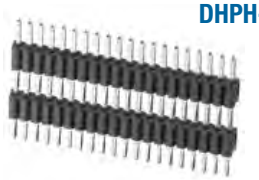
A = .050 [1.27] X No. of Positions
B = .050 [1.27] X No. of Spaces

Recommended PCB Layout





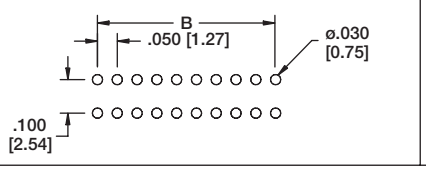
DHPH-1

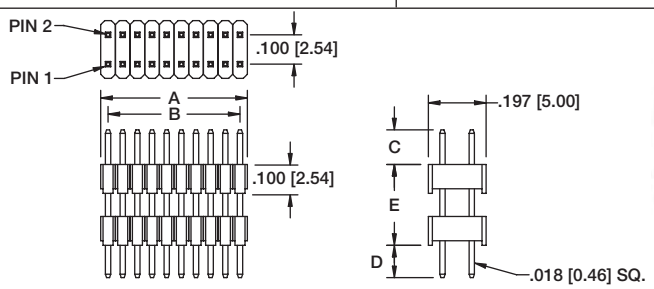


DHPH-1-20-U-.079/.079/.354

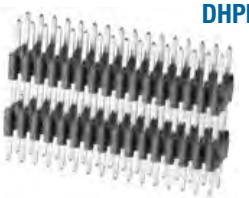
A = .050 [1.27] X No. of Positions per row
B = .050 [1.27] X No. of Spaces

Recommended PCB Layout





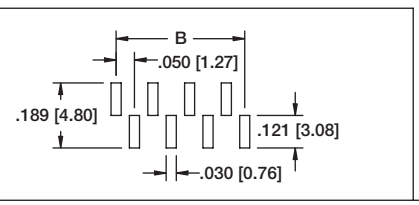
DHPH-2

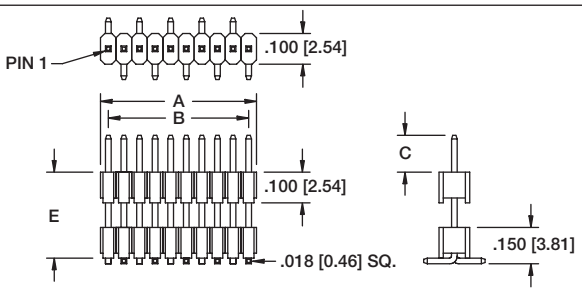


DHPH-2-32-U-.079/.079/.354

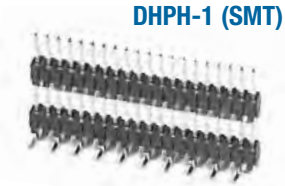
A = .050 [1.27] X No. of Positions
B = .050 [1.27] X No. of Spaces

Recommended PCB Layout





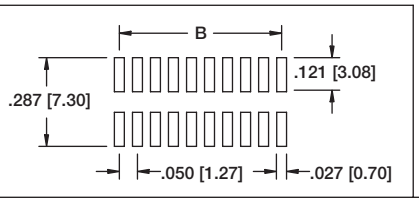
DHPH-1 (SMT)

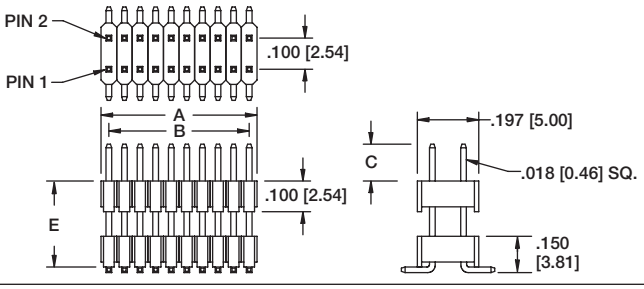


DHPH-1-10-U-.079/SMT-A/.3.54

A = .050 [1.27] X No. of Positions per row
B = .050 [1.27] X No. of Spaces

Recommended PCB Layout





DHPH-2 (SMT)

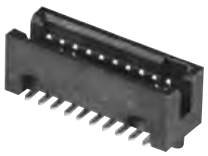
DHPH-2-40-U-.079/SMT/.3.54

.050" MALE & FEMALE HEADER SET

.050" [1.27] CENTERLINE

HSH & HFH SERIES

MALE HEADER



ORDERING INFORMATION

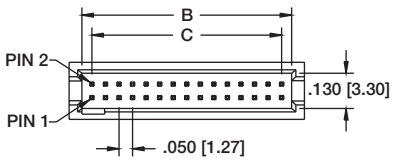
HSH | 50 | G

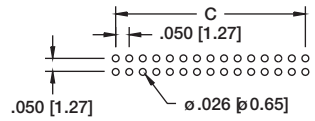
SERIES INDICATOR
HSH =
.050" Shrouded Male header

TOTAL POSITIONS
10 thru 100

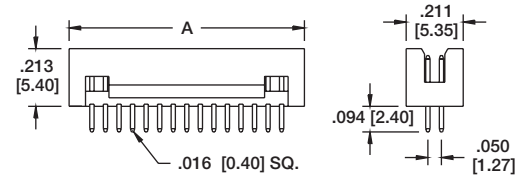
PLATING
G = Gold plated
T = Tin plated
SG = Gold plating in contact area, tin plated solder tails

OPTIONS:
SMT = Surface mount leads with Hi-Temp insulator
P = Peg option (thru hole only)





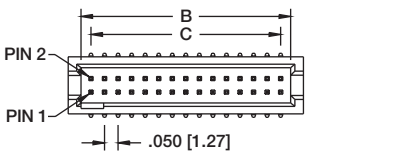
Standard: With key & without peg

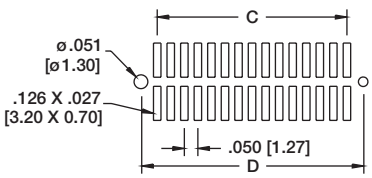


A = .050 X No. of Spaces + .168 [4.27]
B = .050 X No. of Spaces + .074 [1.87]
C = .050 X No. of Spaces

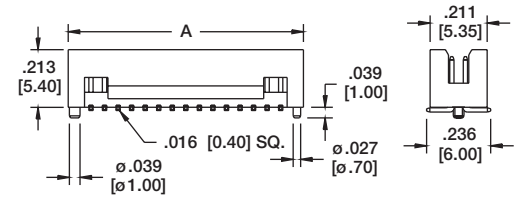
HSH SERIES
SHROUDED MALE HEADER

Recommended PCB Layout





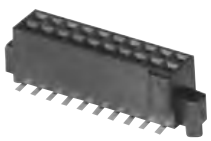
Standard: With key & with peg



A = .050 X No. of Spaces + .168 [4.27]
B = .050 X No. of Spaces + .074 [1.87]
C = .050 X No. of Spaces
D = .050 X No. of Spaces + .120 [3.05]

HSH-SMT SERIES
SHROUDED MALE HEADER

FEMALE HEADER



ORDERING INFORMATION

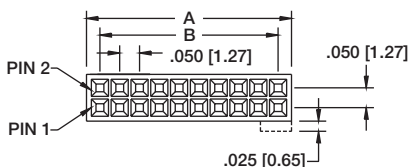
HFH | 50 | G

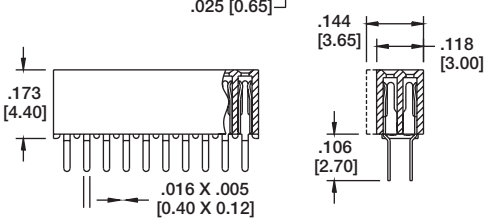
SERIES INDICATOR
HFH =
.050" Female header

TOTAL POSITIONS
10 thru 100

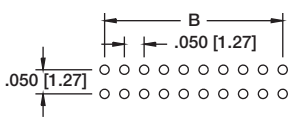
PLATING
G = Gold plated
T = Tin plated
SG = Gold plating in contact area, tin plated solder tails

OPTIONS:
SMT = Surface mount leads with Hi-Temp insulator
NP = No peg
NK = No Key
P = Peg option (thru hole only)





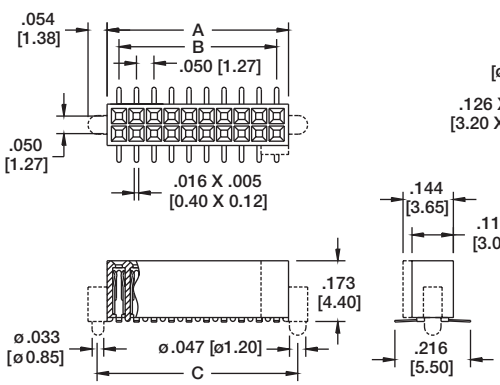
Recommended PCB Layout



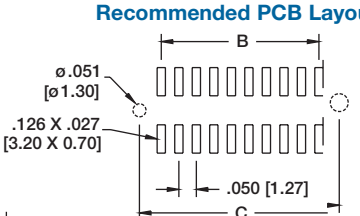
Standard: With key & without peg

A = .050 X No. of Spaces + .068 [1.73]
B = .050 X No. of Spaces
C = .050 X No. of Spaces + .120 [3.05]

HFH SERIES
SHROUDED FEMALE HEADER



Recommended PCB Layout



Standard: With key & with peg

A = .050 X No. of Spaces + .068 [1.73]
B = .050 X No. of Spaces
C = .050 X No. of Spaces + .120 [3.05]

HFH-SMT SERIES
SHROUDED FEMALE HEADER

.050" BOX HEADERS

.050" X .050" & .050" X .100" CENTERLINE

HBHR SERIES

HBHR SERIES
Adam Tech HBHR Series .050" Box Headers are fine pitched, dual row shrouded headers 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:
Shrouded, insulated connection
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 RECEPTACLES:
Mates with all industry standard .050" [1.27mm] pitch dual row IDC sockets

SPECIFICATIONS:

Material:
Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

Plating:
G = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

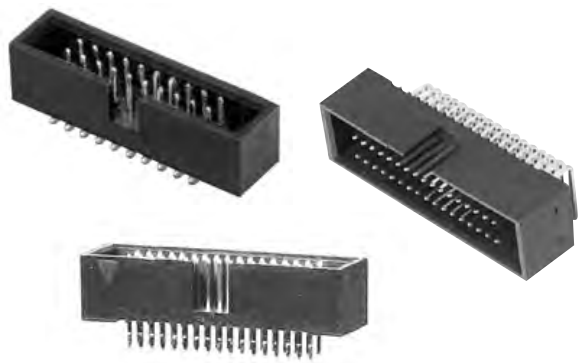
Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Temperature Rating:
Operating temperature: -40°C to +105°C
Soldering process temperature: 260°C

PACKAGING:
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

RoHS COMPLIANT
HI-TEMP INSULATOR AVAILABLE



ORDERING INFORMATION

HBHR-B	20	V	SG

SERIES INDICATOR
HBHR-B = Box header .050" x .050"
HBHR-A = Box header .050" x .100"

POSITIONS
10, 20, 30, 40, 50, 60, 70, 80, 90, 100

MOUNTING ORIENTATION
V = Vertical mount
H = Right angle mount

PLATING
G = Gold plated
SG = Selective gold plating in contact area, tin plated solder tails
T = Tin plated

This series is availabe in an elevated version similar to our BHRE Series as shown on pgs. 286-287

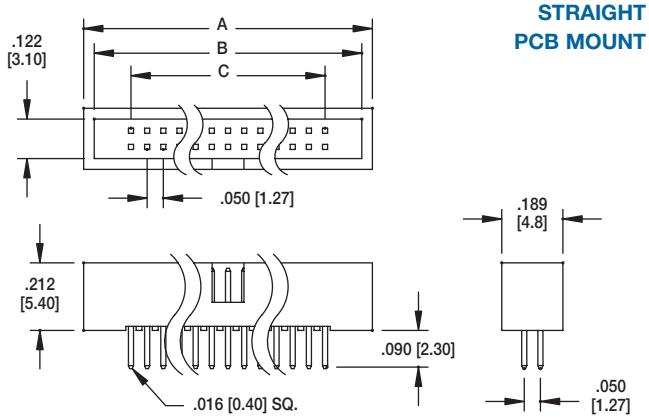
OPTIONS:
Add designator(s) to end of part number
30 = 30 μin gold plating in contact area
SMT = Surface mount leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C *(Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*

.050" BOX HEADERS

.050" X .050" & .050" X .100" CENTERLINE

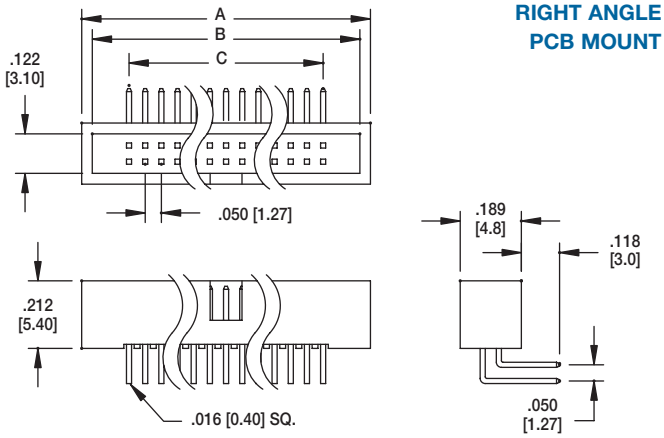
HBHR SERIES

HBHR-B .050" X .050" STRAIGHT PCB MOUNT



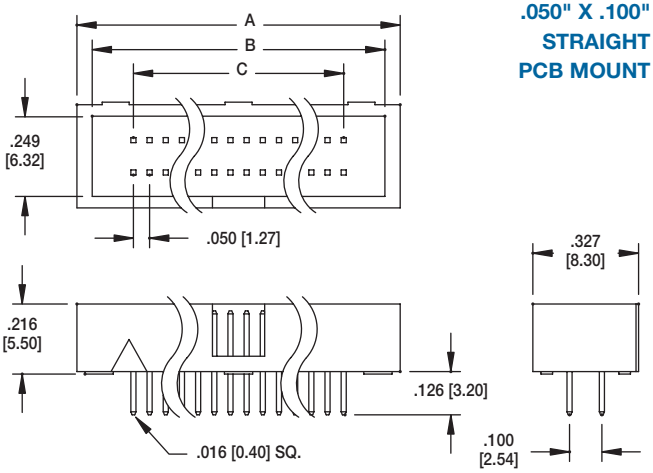
A = .050 [1.27] x No. of Spaces + .292 [7.43]
B = .050 [1.27] x No. of Spaces + .227 [5.77]
C = .050 [1.27] x No. of Spaces

HBHR-B .050" X .050" RIGHT ANGLE PCB MOUNT



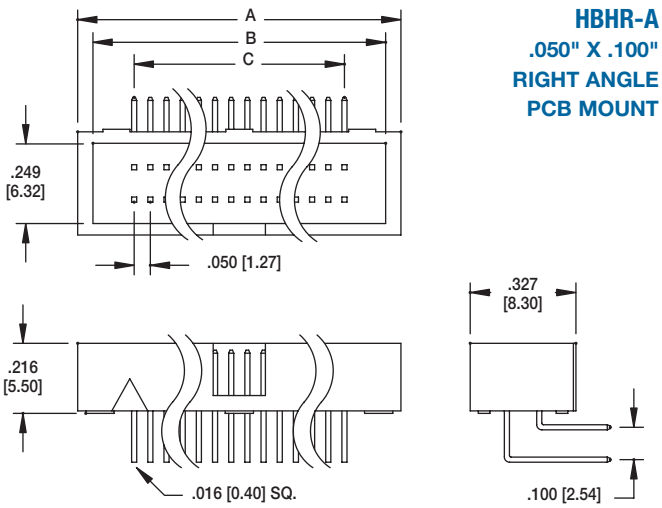
A = .050 [1.27] x No. of Spaces + .292 [7.43]
B = .050 [1.27] x No. of Spaces + .227 [5.77]
C = .050 [1.27] x No. of Spaces

HBHR-A .050" X .100" STRAIGHT PCB MOUNT



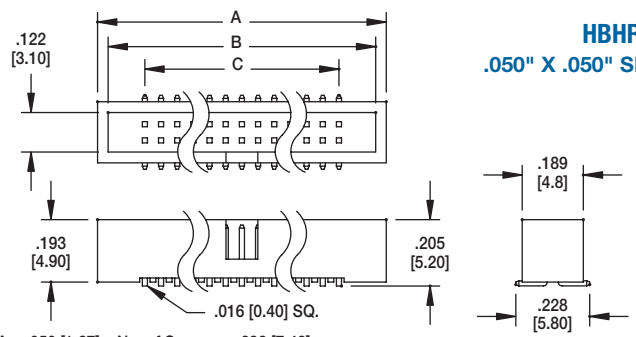
A = .050 [1.27] x No. of Spaces + .349 [8.87]
B = .050 [1.27] x No. of Spaces + .255 [6.47]
C = .050 [1.27] x No. of Spaces

HBHR-A .050" X .100" RIGHT ANGLE PCB MOUNT



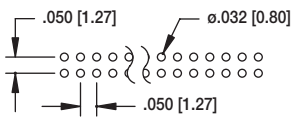
A = .050 [1.27] x No. of Spaces + .349 [8.87]
B = .050 [1.27] x No. of Spaces + .255 [6.47]
C = .050 [1.27] x No. of Spaces

HBHR-B .050" X .050" SMT

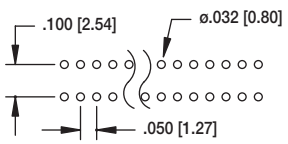


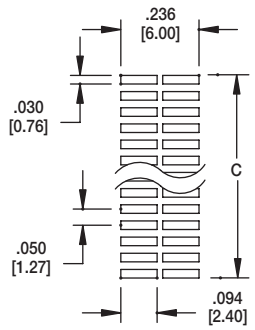
A = .050 [1.27] x No. of Spaces + .292 [7.43]
B = .050 [1.27] x No. of Spaces + .227 [5.77]
C = .050 [1.27] x No. of Spaces

HBHR-B



HBHR-A





SMT

Recommended PCB Layouts

.050" LATCH HEADERS

.050" X .050" & .050" X .100" CENTERLINE

HMHR SERIES

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 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

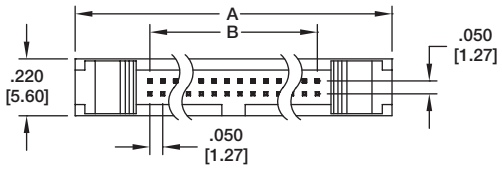
OPTIONS:
Add designator(s) to end of part number
SMT = Surface mount leads Dual row with Hi-Temp insulator
HT = High-temp insulator for high-temp soldering processes

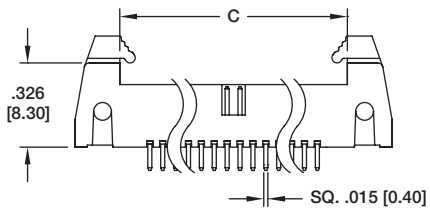
.050" LATCH HEADERS

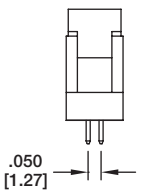
.050" X .050" CENTERLINE

HMHR SERIES

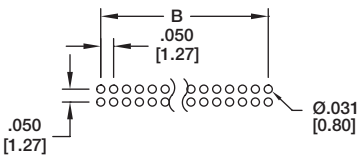
HMHR-A
.050" X .050"
STRAIGHT PCB MOUNT







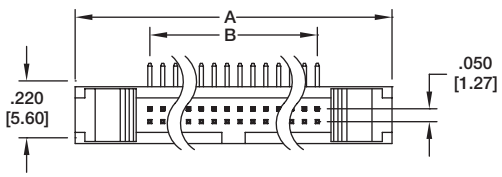
HMHR-A-50-VUAS

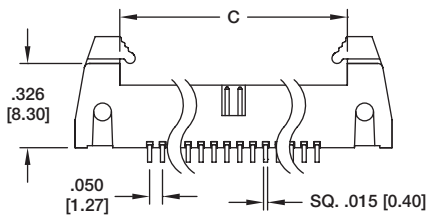


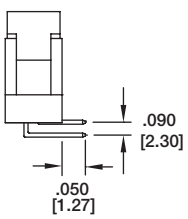
Recommended PCB Layout

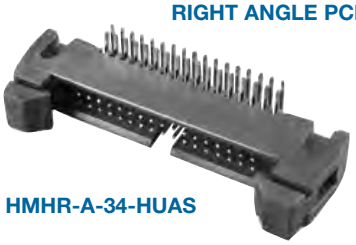
A = .050 [1.27] X No. of Spaces + .233 [5.92]
B = .050 [1.27] X No. of Spaces
C = .050 [1.27] X No. of Spaces + .621 [15.77]

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

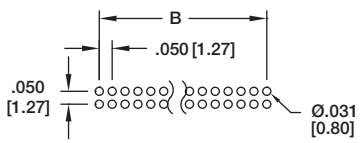








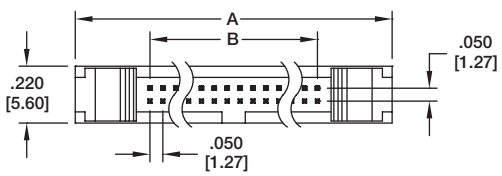
HMHR-A-34-HUAS

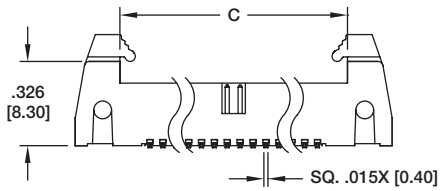


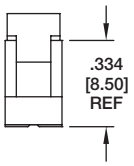
Recommended PCB Layout

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]

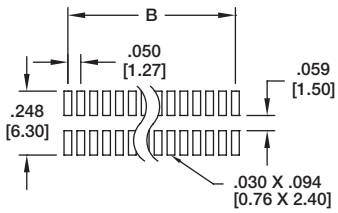
HMHR-A
.050" X .050"
VERTICAL SMT







HMHR-A-60-VUAS-SMT



Recommended PCB Layout

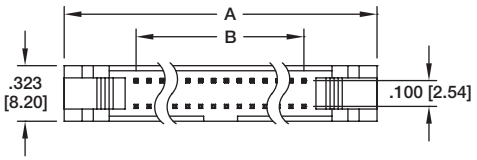
A = .050 [1.27] X No. of Spaces + .233 [5.92]
B = .050 [1.27] X No. of Spaces
C = .050 [1.27] X No. of Spaces + .621 [15.77]

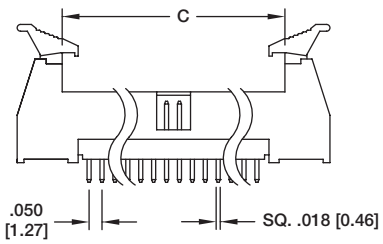
.050" LATCH HEADERS

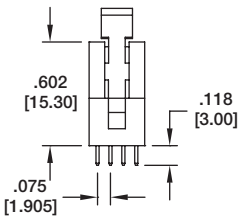
.050" X .100" CENTERLINE

HMHR SERIES

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



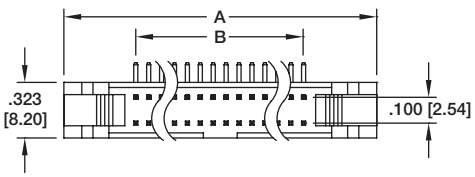


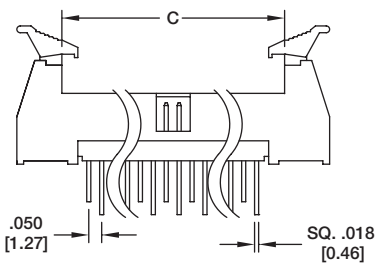


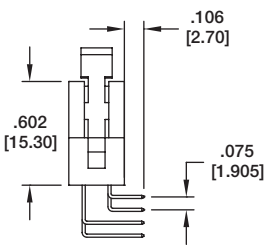
HMHR-B-50-VUAL

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

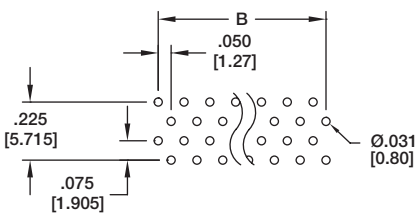






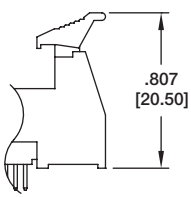
HMHR-B-60-HUAL

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]

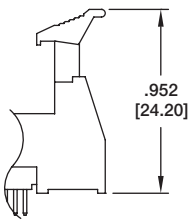


Recommended PCB Layout

Latch Options



Header with
Short Ejector/Latch
for Sockets without
Strain Reliefs



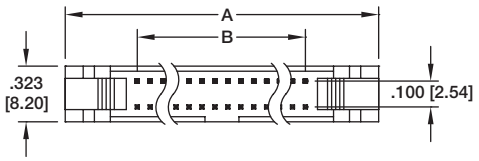
Header with
Long Ejector/Latch
for Sockets with
Strain Reliefs

.050" LATCH HEADERS

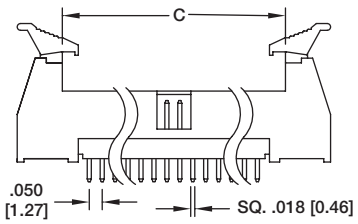
.050" X .100" CENTERLINE

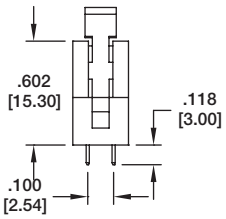
HMHR SERIES

HMHR
.050" X .100"
STRAIGHT PCB MOUNT



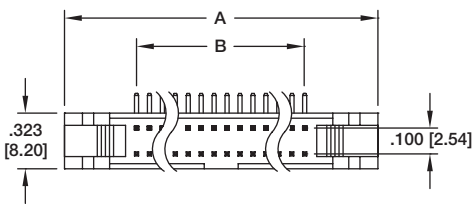
HMHR-80-VUAS



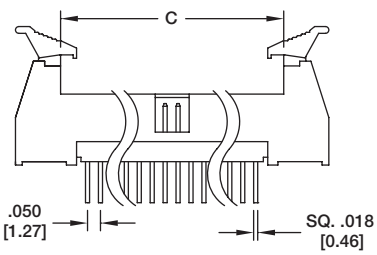


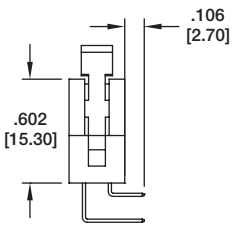
A = .050 [1.27] X No. of Spaces + .306 [7.78]
B = .050 [1.27] X No. of Spaces
C = .050 [1.27] X No. of Spaces + .829 [21.07]

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

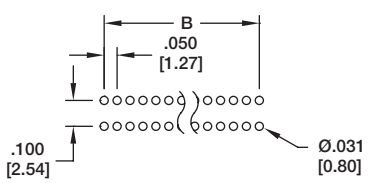


HMHR-50-HUAL



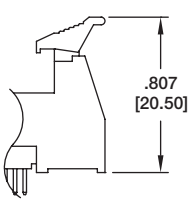


A = .050 [1.27] X No. of Spaces + .306 [7.78]
B = .050 [1.27] X No. of Spaces
C = .050 [1.27] X No. of Spaces + .829 [21.07]

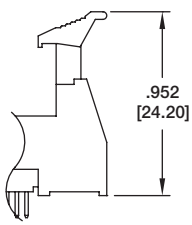


Recommended PCB Layout

Latch Options



Header with Short Ejector/Latch for Sockets without Strain Reliefs



Header with Long Ejector/Latch for Sockets with Strain Reliefs

.050" RECEPTACLE STRIPS

.050" [1.27] CENTERLINE

HRS SERIES

INTRODUCTION:
Adam Tech HRS Series .050" Receptacle Strips are offered in a multitude of sizes and profiles designed to satisfy most .050" socket requirements. Available in Single and Dual rows they are offered in Straight, Right Angle, SMT, Bottom Entry and Pass Through PCB mounting styles. Each type has a specially designed contact system which produces a high normal force connection and is available with gold, tin or selective gold plating. All are available with standard or Hi-Temp thermoplastic insulators. Our SMT offering is available with optional pick and place pads and tape & reel packaging.

FEATURES:
Broad range of sizes and profiles
Contact systems with high normal force
Choice of contact plating
SMT pick & place option
Optional Tape & reel packaging

MATING CONNECTORS:
Adam Tech HPH headers and all industry standard .050" pitch pin headers with .016" [0.4mm] square pins

SPECIFICATIONS:

Material:
Insulator: Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

Contact Plating:
G = Gold over nickel underplate overall
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

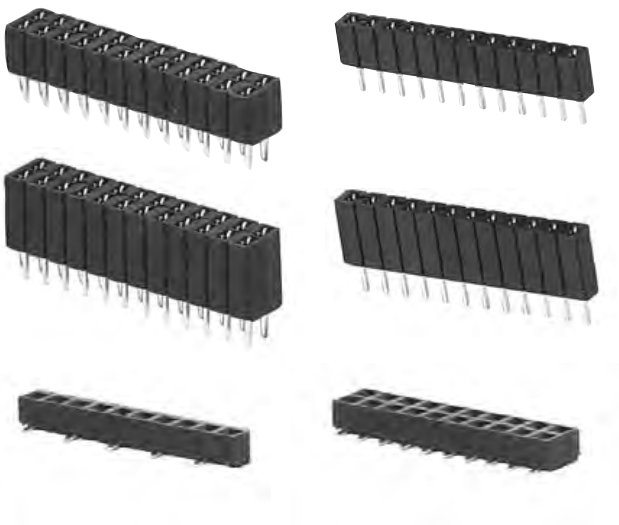
Mechanical:
Insertion force: 0.375 lbs per contact max.
Withdrawal force: 0.125 lbs per contact min.

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

PACKAGING:
Anti-ESD trays or tubes
(Tape and Reel optional for SMT type)

SAFETY AGENCY APPROVALS:
UL Recognized File no. E224053

RoHS COMPLIANT
HI-TEMP INSULATOR AVAILABLE



ORDERING INFORMATION

HRS	1A	50	G	A

SERIES INDICATOR
HRS = .050" Receptacle Strip

NO. OF ROWS / PROFILE
1A = Single Row, Standard Profile
1B = Single Row, Low Profile
1C = Single Row, .085" Height
2A = Dual Row, Standard Profile .050"x.100"
2B = Dual Row, Low Profile .050"x.100"
2C = Dual Row, Low Profile .050"x.050"(SMT) or PCB
2F = Dual Row, Low Profile .050"x.100"(SMT)
1F = Single Row (SMT) .228" Height
1G = Single Row, .079" Height, Top Entry, (SMT)
2E = Dual Row, .134" Height .050"x.050" (SMT or PCB)
2F = Dual Row, .230" Height .050"x.100"
2G = Dual Row, .085" Height .050"x.050" (SMT)

NO. OF POSITIONS
Single Row: 02 thru 40
Dual Row: 04 thru 80

CONTACT PLATING
G = Gold plated
T = Tin plated
SG = Gold plated contact area, tin plated solder tails

SOLDER TAIL LENGTH
A = Standard solder tail for .062"-.125" PCB thickness
SMT = Surface mount leads (2C, 2E, 2F, 2G only)
SMT-A = Surface mount leads Type A (1F, 1G only)
SMT-B = Surface mount leadsType B (1F, 1G only)

OPTIONS:
Add designator(s) to end of part number
30 = 30 μin gold plating in contact area
P = Guide Pegs
E = End Pegs

.050" RECEPTACLE STRIPS

.079", .085", .181" & .335" HEIGHT

HRS SERIES

HRS-1B

HRS-1B-12-GA

HRS-2B

HRS-2B-24-GA

HRS-1A

HRS-1A-12-GA

HRS-2A

HRS-2A-24-GA

HRS-1G-SMT
TOP ENTRY

HRS-1G-10-SG-SMT-B

HRS-2G-SMT
TOP ENTRY

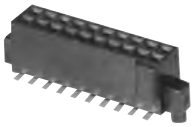
HRS-2G-20-SG-SMT-P

.050" RECEPTACLE STRIPS

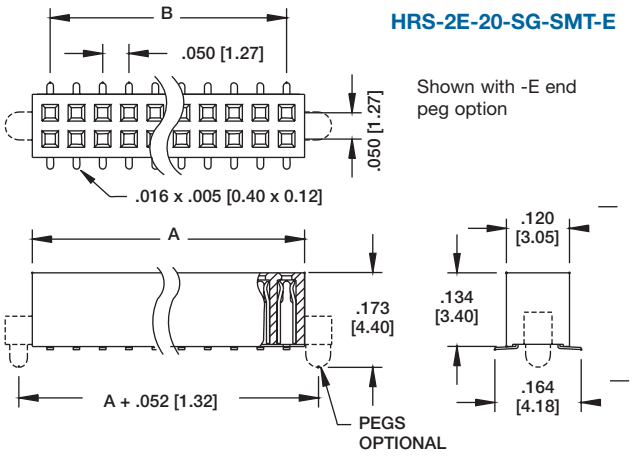
.134" & .228" HEIGHT .050" [1.27] CENTERLINE

HRS SERIES

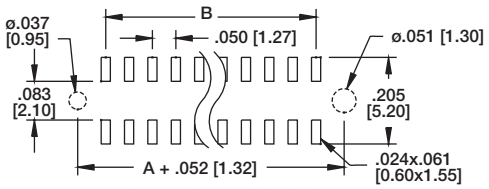
HRS-2E SMT
W/ OPTIONAL PEG



HRS-2E-20-SG-SMT-E



Shown with -E end peg option



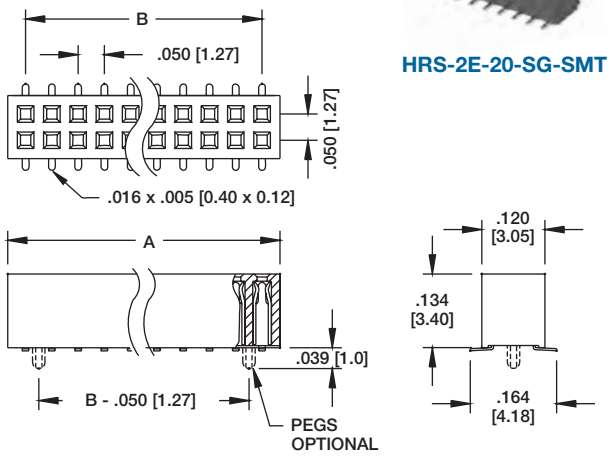
Recommended PCB Layout

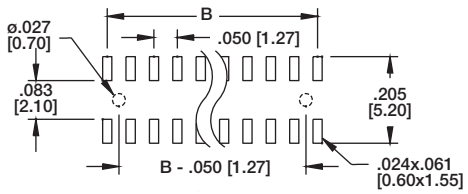
A = .050 [1.27] X No. of Positions per row + .018 [0.46]
B = .050 [1.27] X No. of Spaces

HRS-2E SMT

Ordering Information pg. 294

HRS-2E-20-SG-SMT



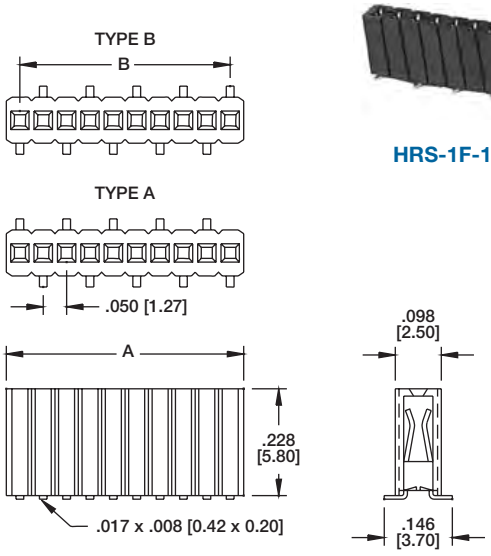


Recommended PCB Layout

A = .050 [1.27] X No. of Positions per row + .018 [0.46]
B = .050 [1.27] X No. of Spaces

HRS-1F-SMT

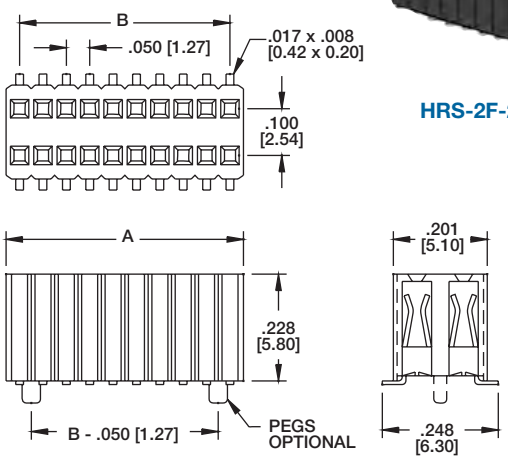
HRS-1F-12-SG-SMT-B



A = .050 [1.27] X No. of Positions + .008 [0.20]
B = .050 [1.27] X No. of Spaces

HRS-2F-SMT

HRS-2F-24-SG-SMT



A = .050 [1.27] X No. of Positions per row + .008 [0.20]
B = .050 [1.27] X No. of Spaces

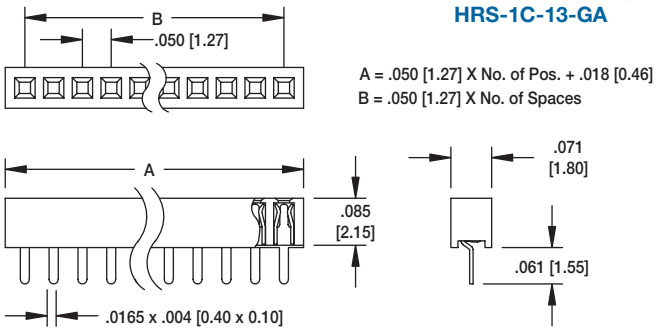
.050" RECEPTACLE STRIPS

.085" & .133" HEIGHT .050" [1.27] CENTERLINE

HRS SERIES

HRS-1C
SINGLE ROW

HRS-1C-13-GA

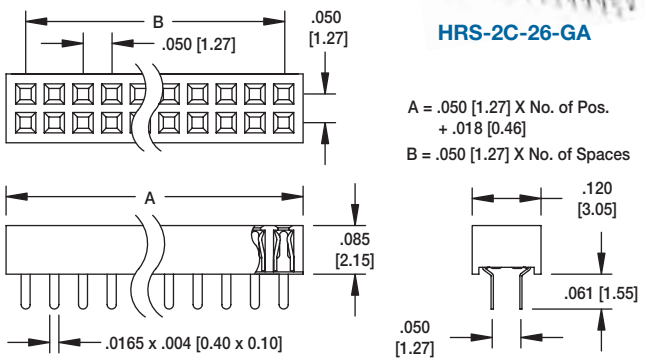


A = .050 [1.27] X No. of Pos. + .018 [0.46]
B = .050 [1.27] X No. of Spaces

HRS-2C
DUAL ROW

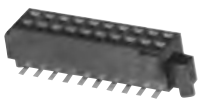
Ordering Information pg. 294

HRS-2C-26-GA

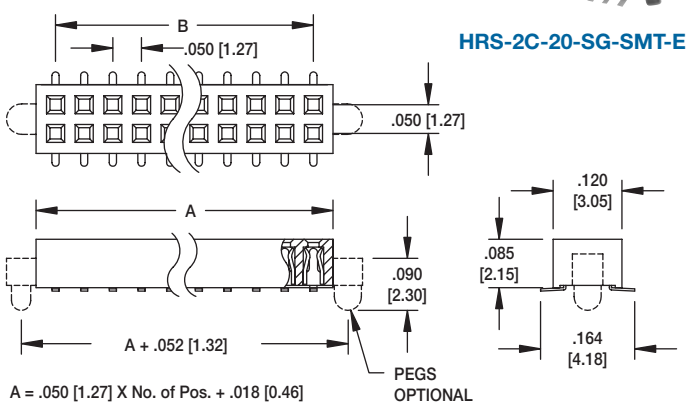


A = .050 [1.27] X No. of Pos. + .018 [0.46]
B = .050 [1.27] X No. of Spaces

HRS-2C-SMT
DUAL ROW WITH END PEGS



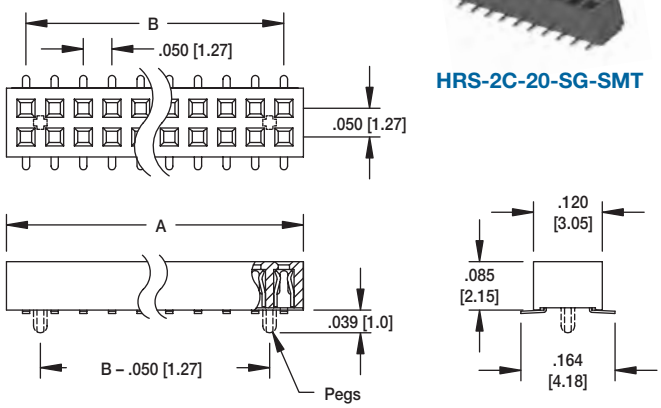
HRS-2C-20-SG-SMT-E



A = .050 [1.27] X No. of Pos. + .018 [0.46]
B = .050 [1.27] X No. of Spaces

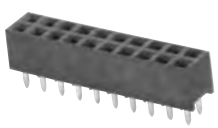
HRS-2C-SMT
DUAL ROW WITH UNDERSIDE PEGS

HRS-2C-20-SG-SMT

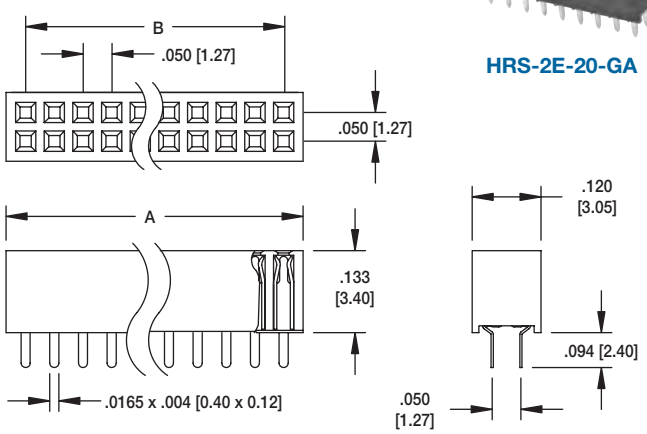


A = .050 [1.27] X No. of Pos. + .018 [0.46]
B = .050 [1.27] X No. of Spaces

HRS-2E
DUAL ROW

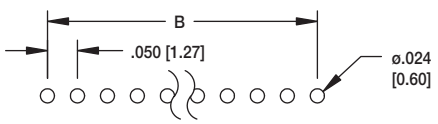


HRS-2E-20-GA

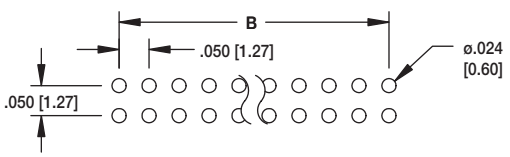


A = .050 [1.27] X No. of Pos. + .018 [0.46]
B = .050 [1.27] X No. of Spaces

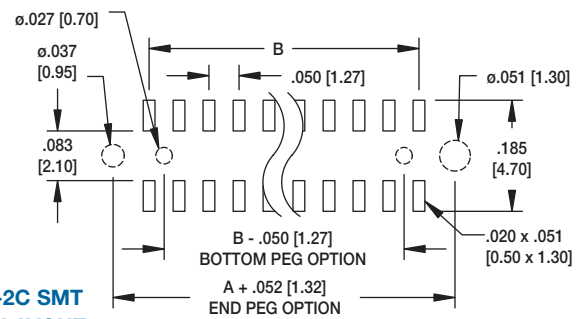
HRS-1C
PCB LAYOUT



HRS-2C & 2E
PCB LAYOUT



HRS-2C SMT
PCB LAYOUT



2.00mm PIN HEADERS

.079" [2.00] CENTERLINE

2PH SERIES

INTRODUCTION
Adam Tech 2PH & D2PH Series 2.0mm Pin Headers offer a full range of fine pitched headers in a variety of configurations including Single, Dual and Three rows, Straight & Right Angle in Thru-Hole or SMT mounting. Their close tolerance .020" sq. posts are smoothly finished and taper tipped to eliminate insertion damage to the PCB or mating connector. Adam Tech 2.0mm Pin Headers can be easily cut into exact sizes as required. Options include stacked insulator versions and choice of tin, gold or selective gold plating. This series is compatible with all industry standard 2.0mm pitch mating connectors.

FEATURES:
Single, Dual or Three Row
Tin, gold or selective gold plating options
Thru-hole or SMT mounting
Stacked and Custom length versions available
Versatile Breakaway design
Hi Temp Insulator available

MATING RECEPTACLES:
Mates with all industry standard .050" pitch female headers

SPECIFICATIONS:

Material:
Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

Plating:
U = Gold over nickel underplate overall
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: 1,000 cycles

Temperature Rating:
Operating temperature: -40°C to +105°C
Soldering process temperature: 260°C

PACKAGING:
Anti-ESD plastic bags
(Tape and Reel available for SMT option)

APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

RoHS COMPLIANT
HI-TEMP INSULATOR AVAILABLE

ORDERING INFORMATION

2PH1 | 40 | U | A

SERIES INDICATOR
2PH1 = 2.00mm Single Row Straight Pin Header
2PH2 = 2.00mm Dual Row Straight Pin Header
2PH1R = 2.00mm Single Row Right Angle Pin Header
2PH2R = 2.00mm Dual Row Right Angle Pin Header

POSITIONS
Single row: 1 thru 40
Dual row: 2 thru 80

PLATING
U = Gold plated
T = Tin plated
SG = Selective gold plating in contact area, tin plating on solder tails

PIN LENGTH
A = Standard length
B = Special length, customer specified defined as: tail dim/total length

ORDERING INFORMATION
DUAL INSULATOR HEADERS

D2PH | 1 | 40 | SG | .xxx"/.xxx"/.xxx (“C” DIM. “D” DIM. “E” DIM.)

SERIES INDICATOR
D2PH = 2mm Dual Insulator Pin Header

NO. OF ROWS
1 = Single row
2 = Dual row

POSITIONS
Single row: 2 thru 40
Dual row: 4 thru 80

PLATING
U = Gold plated
T = Tin plated
SG = Gold plating in contact area tin plating on solder tails

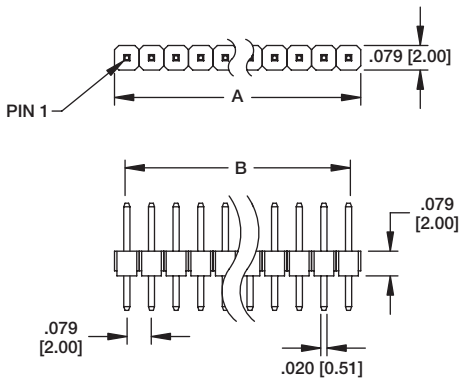
STACKING DIMENSIONS
Specified In Inches As:
“C” Dim. / “D” Dim. / “E” Dim.
Replace “D” Dim. with “SMT” for Surface Mount Option

OPTIONS: Add designator(s) to end of part number
SMT = Surface Mount leads Dual Row
SMT-A = Surface Mount leads Type A
SMT-B = Surface Mount Leads Type B
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)
L = Low profile 1.5mm insulator thickness
P = Locating pegs
BR = Board retention solder tails

2.00mm PIN HEADERS

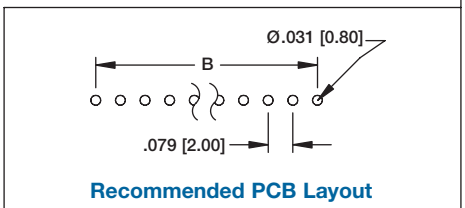
.079" [2.00] CENTERLINE

2PH SERIES

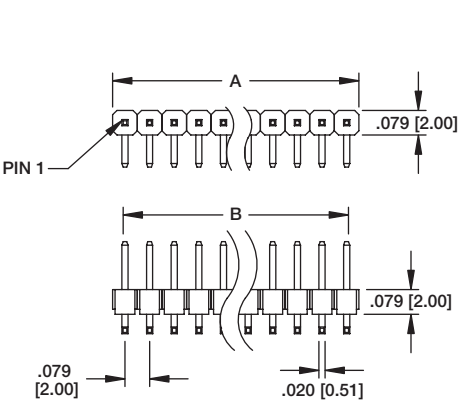


2PH1

2PH1-16-UA

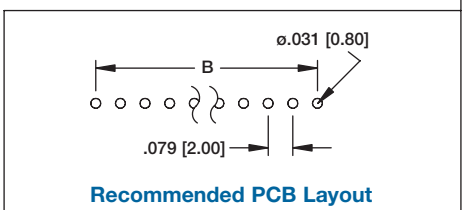


Recommended PCB Layout

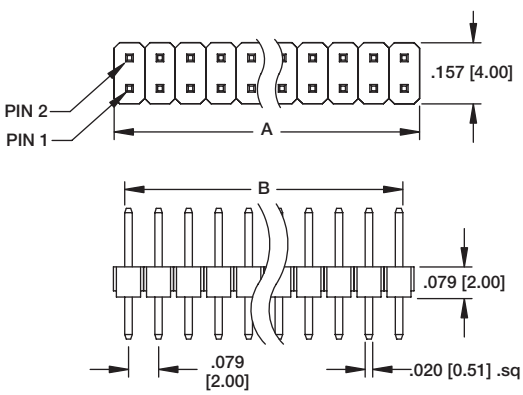


2PH1R

2PH1R-16-UA

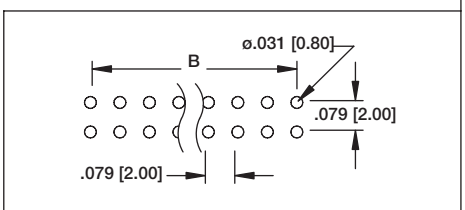


Recommended PCB Layout

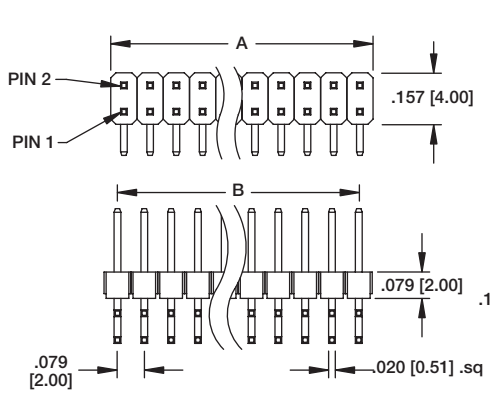


2PH2

2PH2-32-UA

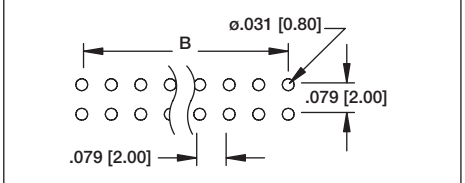


Recommended PCB Layout



2PH2R

2PH2R-32-UA

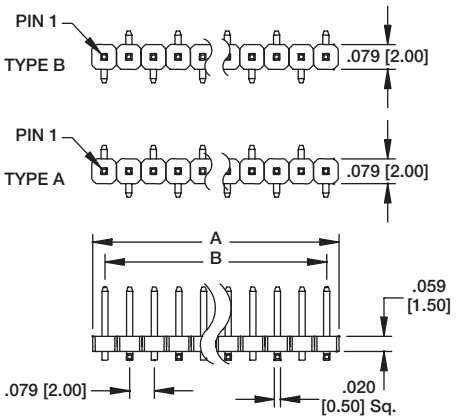


Recommended PCB Layout

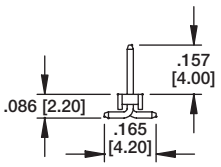
2.00mm PIN HEADERS

.079" [2.00] CENTERLINE

2PH SERIES



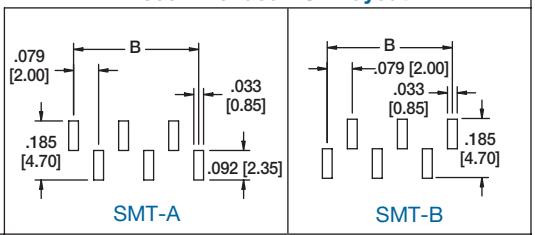
A = .079" [2.00] x No. of positions
B = .079" [2.00] x No. of spaces

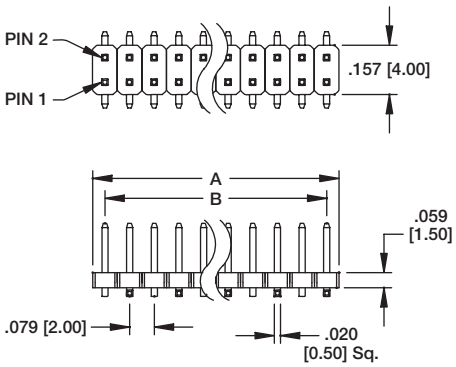


2PH1 (SMT)

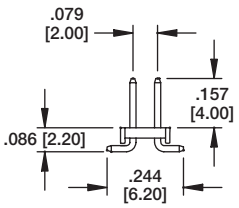
2PH1-15-UA-SMT-A-L

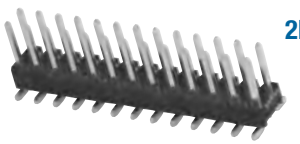
Recommended PCB Layout





A = .079" [2.00] x No. of positions
B = .079" [2.00] x No. of spaces

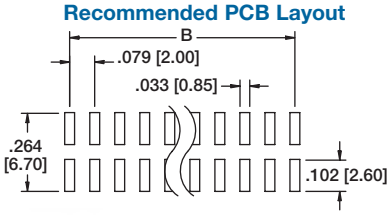


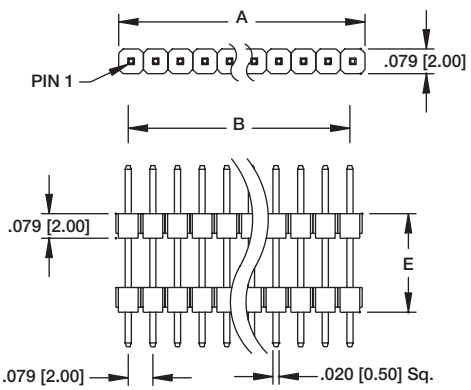


2PH2 (SMT)

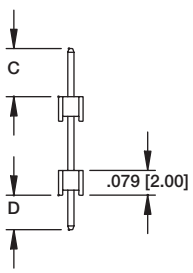
2PH2-26-UA-SMT-L

Recommended PCB Layout





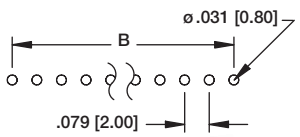
A = .079" [2.00] x No. of positions
B = .079" [2.00] x No. of spaces

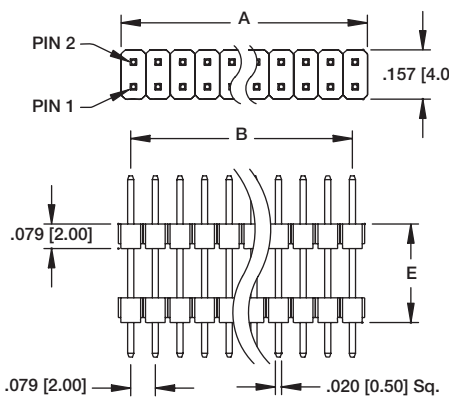


D2PH-1

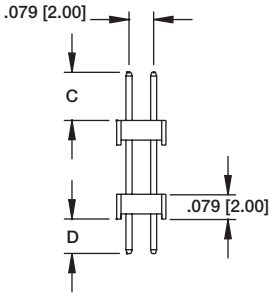
D2PH-1-16-U-.235 /.100 /.400

Recommended PCB Layout





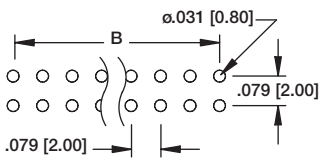
A = .079" [2.00] x No. of positions
B= ..079" [2.00] x No. of spaces



D2PH-2

D2PH-2-32-U-.235 /.100 /.400

Recommended PCB Layout

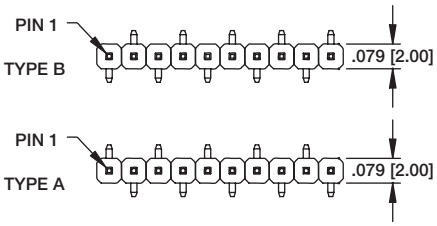


2.00mm HEADERS & SHUNTS

.079" [2.00] CENTERLINE

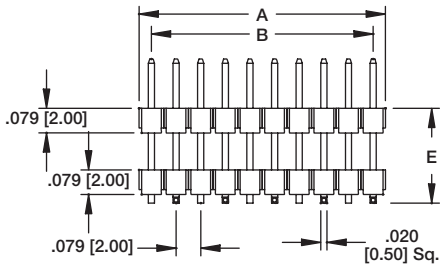
2PH SERIES

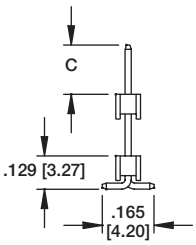
D2PH-1 (SMT)



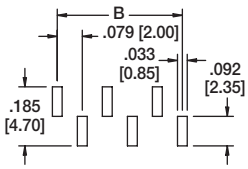
A = .079" [2.00] x No. of positions
B = .079" [2.00] x No. of spaces

D2PH-1-12-U-.100/SMT-B/.240

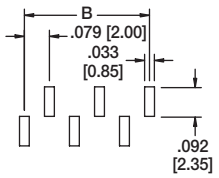




Recommended PCB Layouts

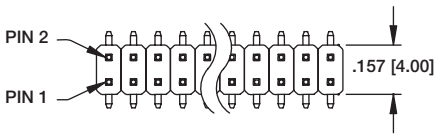


SMT-A

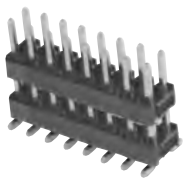


SMT-B

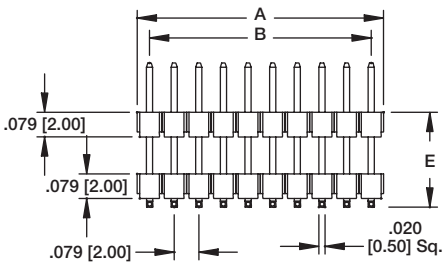
D2PH-2 (SMT)

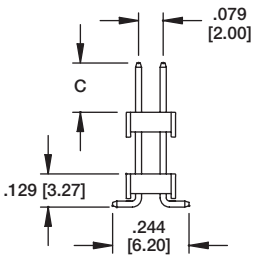


A = .079" [2.00] x No. of positions
B = .079" [2.00] x No. of spaces

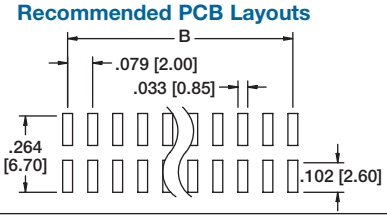


D2PH-2-16-U-.145/SMT/.360

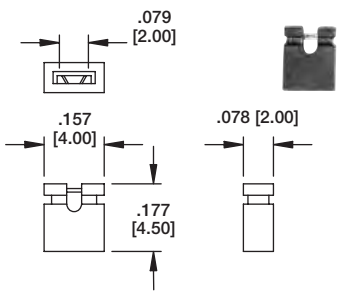




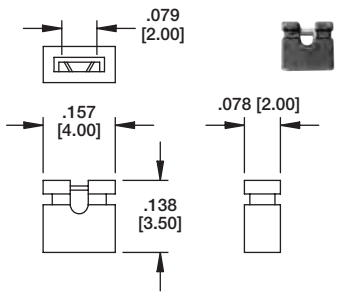
Recommended PCB Layouts



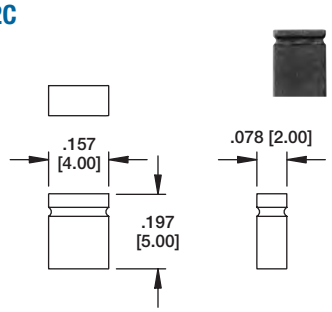
MS2A



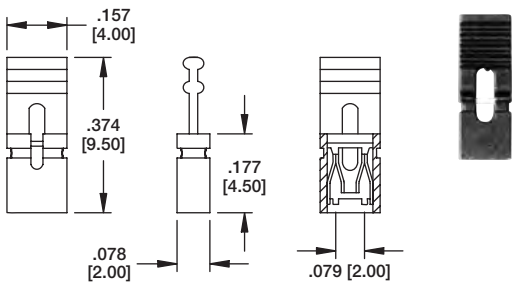
MS2B



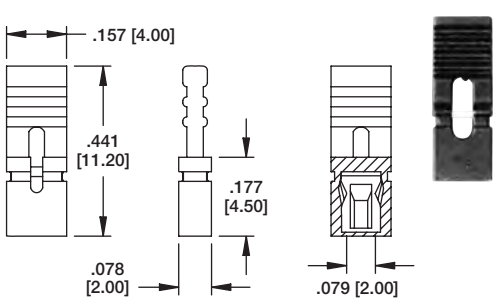
MS2C



MS2H-1
RIGID
SHORT
HANDLE



MS2H-2
FLEXIBLE
LONG
HANDLE



2.00mm BOX HEADERS

.079" [2.00] CENTERLINE

2BHR SERIES

INTRODUCTION:
Adam Tech 2BHR Series 2.0mm Box Headers are dual row shrouded headers 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:
Shrouded, insulated connection
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 .079" [2.0mm] X .079" [2.0mm] dual row IDC sockets

SPECIFICATIONS:

Material:
Standard insulator: PBT, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
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

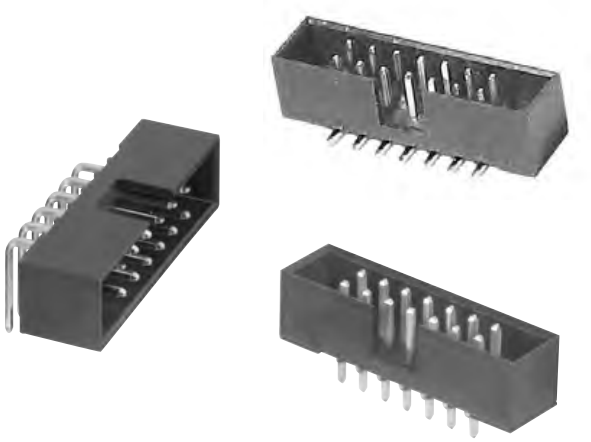
Mechanical:
Mating durability: 500 cycles min.

Temperature Rating:
Operating temperature: -40°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

RoHS COMPLIANT
HI-TEMP INSULATOR AVAILABLE



ORDERING INFORMATION

2BHR	20	V	U	A

SERIES INDICATOR
2BHR = 2mm 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

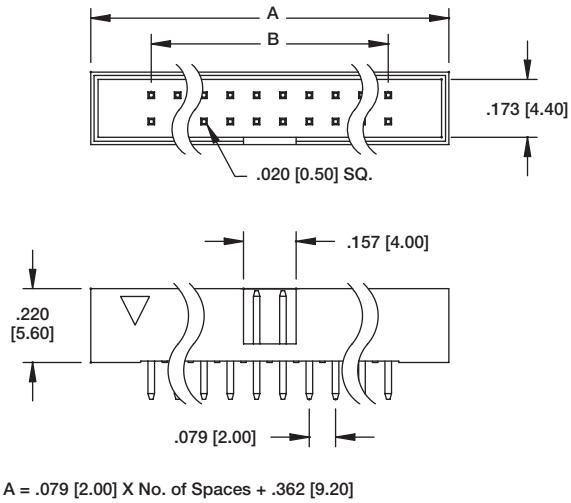
This series is available in an elevated version similar to our BHRE Series as shown on pgs. 286-287

OPTIONS:
Add designator(s) to end of part number
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)*

2.00mm BOX HEADERS

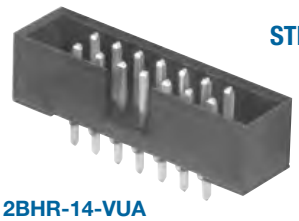
.079" [2.00] CENTERLINE

2BHR SERIES

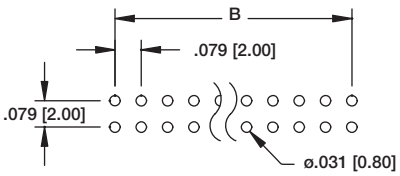


A = .079 [2.00] X No. of Spaces + .362 [9.20]
B = .079 [2.00] X No. of Spaces

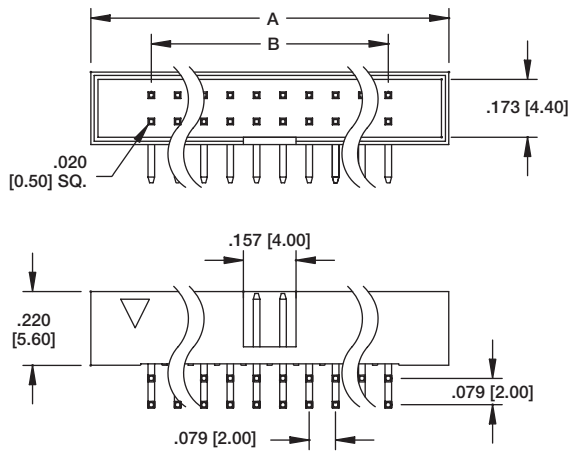
2BHR STRAIGHT



2BHR-14-VUA



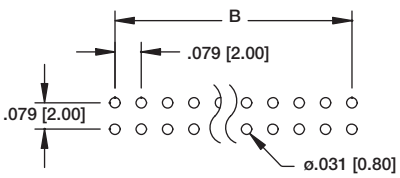
Recommended PCB Layout



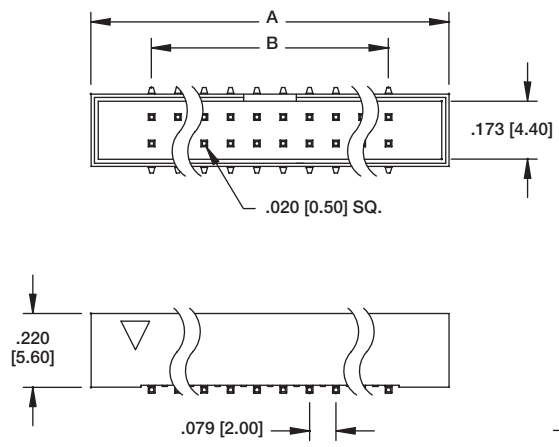
A = .079 [2.00] X No. of Spaces + .362 [9.20]
B = .079 [2.00] X No. of Spaces

2BHR RIGHT ANGLE

2BHR-14-HUA



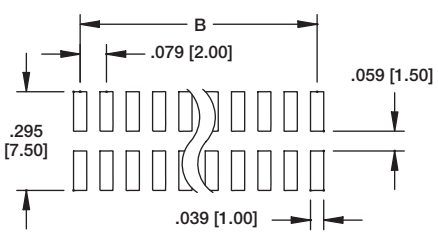
Recommended PCB Layout



A = .079 [2.00] X No. of Spaces + .362 [9.20]
B = .079 [2.00] X No. of Spaces

2BHR SMT

2BHR-14-VUA-SMT



Recommended PCB Layout

2.00mm LATCH HEADER

.079" [2.00] CENTERLINE

2MHR SERIES

INTRODUCTION:
Adam Tech 2MHR Series 2mm 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:
2mm X 2mm 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: 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 File no. E224053

ORDERING INFORMATION

2MHR	44	V	U	A	L

SERIES INDICATOR
2MHR =
2mm Shrouded Header w/Latches

POSITIONS
10, 12, 14, 16, 20, 22, 24, 26, 30, 32, 34, 40, 44, 48, 50, 60, 64, 68

MOUNTING ANGLE
V = Straight Mount
H = Right Angle Mount

This series is availabe in an elevated version similar to our BHRE Series as shown on pgs. 322-323

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

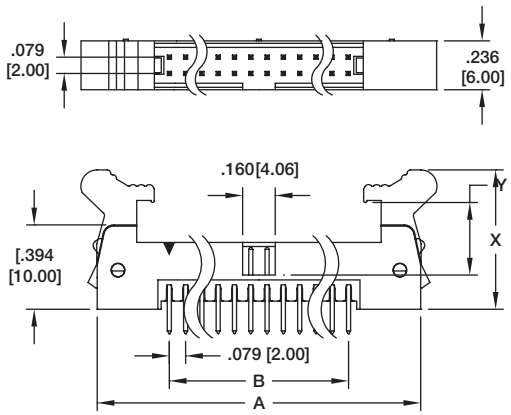
LATCHING FEATURES
S = Short latches (for sockets w/o strain relief)
L = Long latches (for sockets w/strain relief)
N = No latches

OPTIONS:
Add designator(s) to end of part number
HT = High-temp insulator for high-temp soldering processes

2.00mm LATCH HEADER

.079" [2.00] CENTERLINE

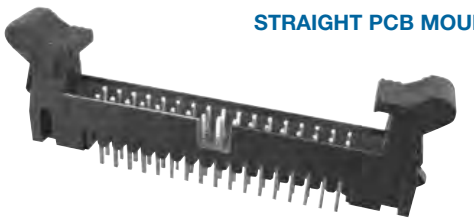
2MHR SERIES



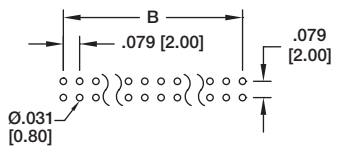
LATCH DIMENSIONS		
	X	Y
LONG LATCH	.775 [19.70]	.452 [11.50]
SHORT LATCH	.665 [16.90]	.342 [8.70]

A = .079 [2.00] X No. of Spaces + .697 [17.70]
B = .079 [2.00] X No. of Spaces

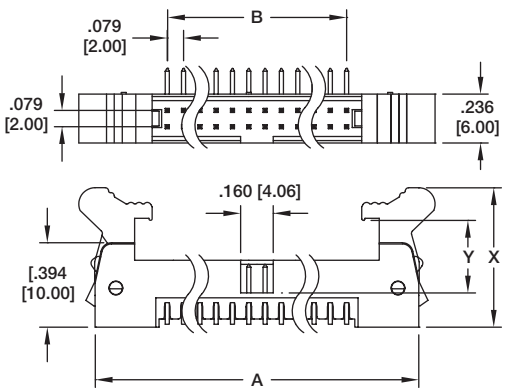
2MHR
STRAIGHT PCB MOUNT



2MHR-34-VUAS



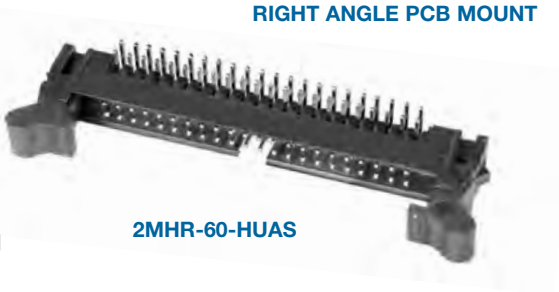
Recommended PCB Layout



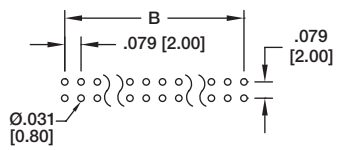
LATCH DIMENSIONS		
	X	Y
LONG LATCH	.775 [19.70]	.452 [11.50]
SHORT LATCH	.665 [16.90]	.342 [8.70]

A = .079 [2.00] X No. of Spaces + .697 [17.70]
B = .079 [2.00] X No. of Spaces

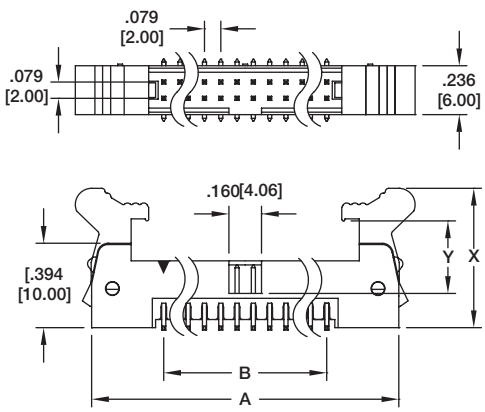
2MHR
RIGHT ANGLE PCB MOUNT



2MHR-60-HUAS



Recommended PCB Layout

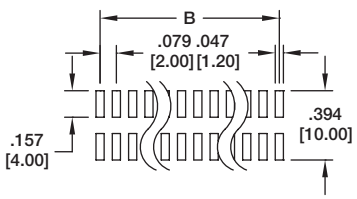


LATCH DIMENSIONS		
	X	Y
LONG LATCH	.775 [19.70]	.452 [11.50]
SHORT LATCH	.665 [16.90]	.342 [8.70]

A = .079 [2.00] X No. of Spaces + .697 [17.70]
B = .079 [2.00] X No. of Spaces

2MHR
VERTICAL SMT MOUNT

2MHR-40-HUAS



Recommended PCB Layout

2.00mm RECEPTACLE STRIPS

.079" [2.00] CENTERLINE

2RS SERIES

INTRODUCTION:
Adam Tech 2RS Series 2.00mm Receptacle Strips are offered in several sizes and profiles designed to satisfy most 2.00mm socket requirements. Available in Single and Dual rows, they are offered in Straight, Right Angle, SMT, Bottom Entry and Pass Through PCB mounting styles. Each type has a specially designed contact system which uses a wiping mating action and produces a high normal force connection with gold, tin or selective gold plating. All are available with Standard or Hi-Temp Thermoplastic insulators. Our SMT offering is available with optional pick and place pads and tape & reel packaging.

FEATURES:
Single and dual row in straight, right angle and SMT mounting forms
Top, side and bottom entry versions
Plated full gold, full tin or duplex plated
Five different body heights
Standard PBT insulator or optional Hi Temp insulator
Tape and reel packaging available

MATING CONNECTORS:
Adam Tech 2PH headers and all industry standard 2.0mm pin headers with a .020" [0.5mm] square pin.

SPECIFICATIONS:

Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

Contact Plating:
G = Gold over nickel underplate overall
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:
Insertion force: 0.313 lbs per contact max.
Withdrawal force: 0.175 lbs per contact min.

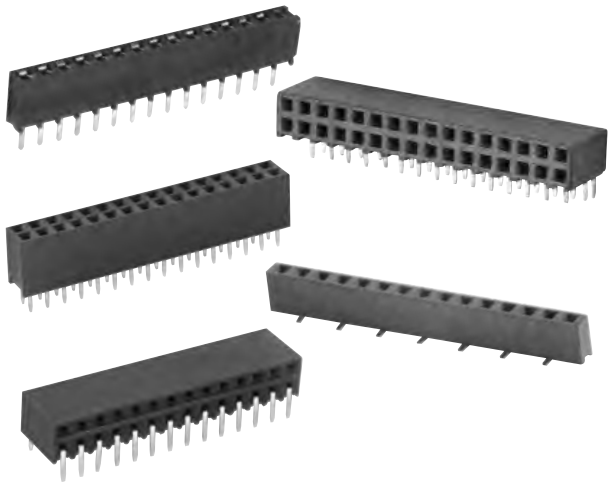
Temperature Rating:
Operating temperature: -40°C to +105°C

PACKAGING:
Anti-ESD plastic trays
(Tape and Reel optional for SMT option)

SAFETY AGENCY APPROVALS:
UL Recognized File no. E224053

RoHS COMPLIANT

HI-TEMP INSULATOR AVAILABLE



ORDERING INFORMATION

2RS1 | **40** | **G**

SERIES INDICATOR
2RS1 = 2.00mm Single Row, Vertical Mount, Receptacle
2RS2 = 2.00mm Dual Row, Vertical Mount, Receptacle
2RS1R = 2.00mm Single Row, Right Angle, Receptacle
2RS2R = 2.00mm Dual Row, Right Angle, Receptacle
2RS4 = 2.00mm 4 Row, Vertical Mount, Receptacle
2RS2BR = 2.00mm Dual Row, Right Angle, 3-Sided Contact Receptacle
2RS1H = 2.00mm Single Row, Vertical Mount, .248" Height Receptacle
2RS2H = 2.00mm Dual Row, Vertical Mount, .248" Height Receptacle
2RS2T = 2.00 mm Dual Row, Surface Mount, .106" Height, Top Entry Receptacle
2RS2B = 2.00mm Dual Row, Surface Mount, .106" Height, Bottom Entry Receptacle

POSITIONS
SINGLE ROW: 2 thru 40
DUAL ROW: 4 thru 80
FOUR ROW: 8 thru 120

PLATING
G = Gold plated
SG = Gold plated contact area, tin plated solder tails
T = Tin plated

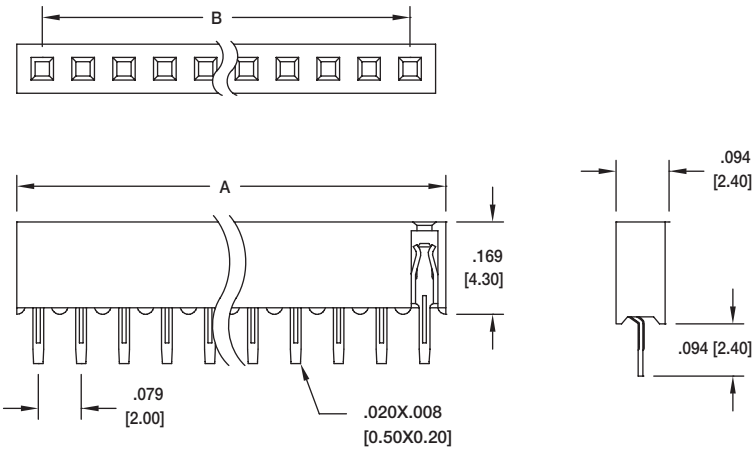
OPTIONS:
Add designator(s) to end of part number
30 = 30 μin gold plating in contact area
SMT = SMT leads with Hi-Temp insulator dual row
SMT-A = SMT Single Row Type A with Hi-Temp insulator
SMT-B = SMT Single Row Type B with Hi-Temp insulator
P = Optional guide peg on SMT version
PP = Pick and place pad
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)*

2.00mm RECEPTACLE STRIPS

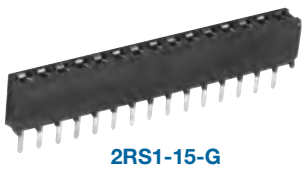
.169" & .193" HEIGHT .079" [2.00] CENTERLINE

2RS SERIES

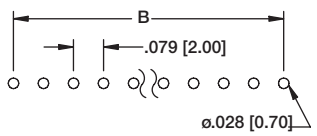
2RS1



A = .079 [2.00] X No. of Positions
B = .079 [2.00] X No. of Spaces

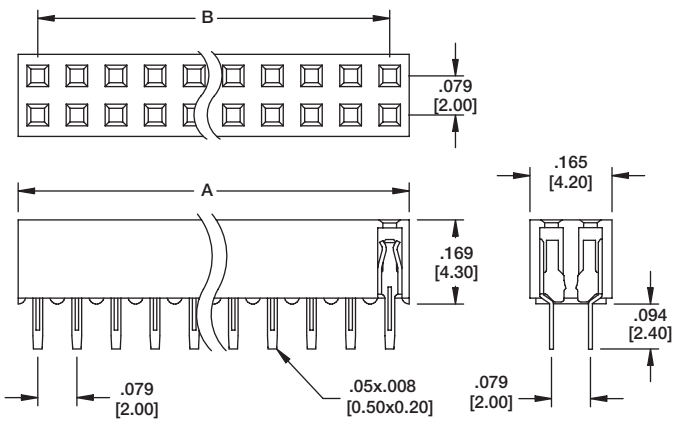


2RS1-15-G

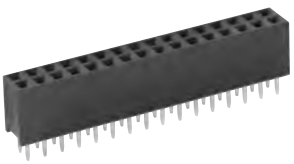


Recommended PCB Layout

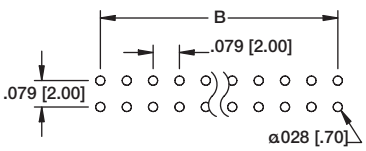
2RS2



A = .079 [2.00] X No. of Positions per row
B = .079 [2.00] X No. of Spaces

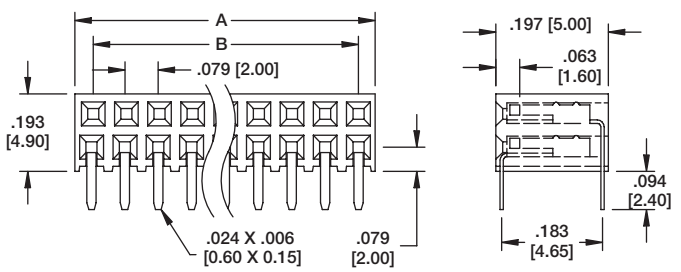


2RS2-32-G

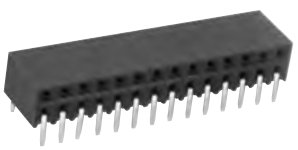


Recommended PCB Layout

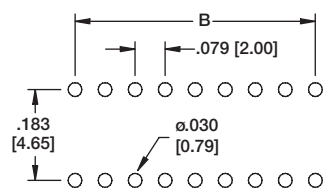
2RS2BR



A = .079 [2.00] X No. of Positions per row + .008 [0.20]
B = .079 [2.00] X No. of Spaces



2RS2BR-28-G



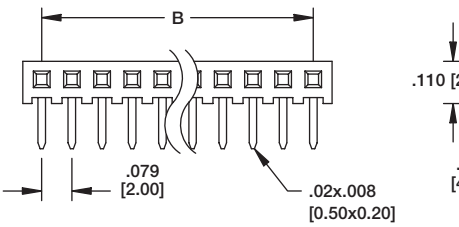
Recommended PCB Layout

2.00mm RECEPTACLE STRIPS

.110", .169" & .191" HEIGHT .079" [2.00] CENTERLINE

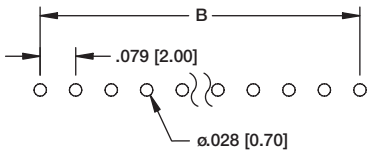
2RS SERIES

2RS1R



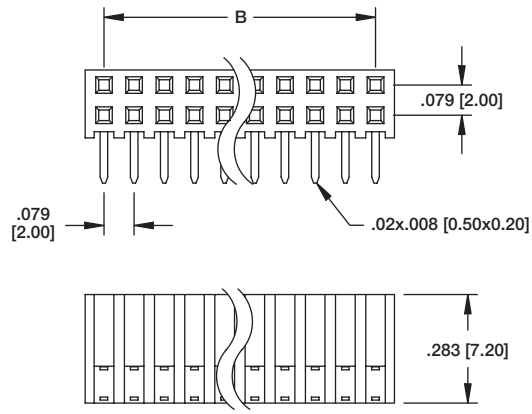
A = .079 [2.00] X No. of Positions
B = .079 [2.00] x No of Spaces

2RS1R-14-G



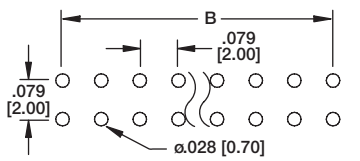
Recommended PCB Layout

2RS2R



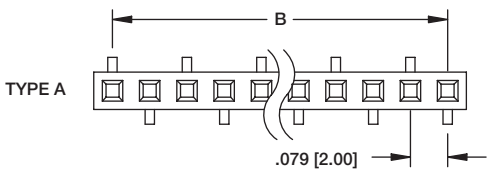
A = .079 [2.00] X No. of Positions Per Row
B = .079 [2.00] x No of Spaces

2RS2R-32-G



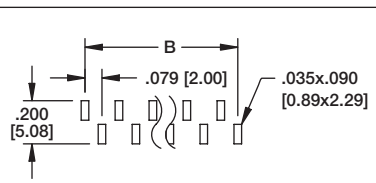
Recommended PCB Layout

2RS1-SMT



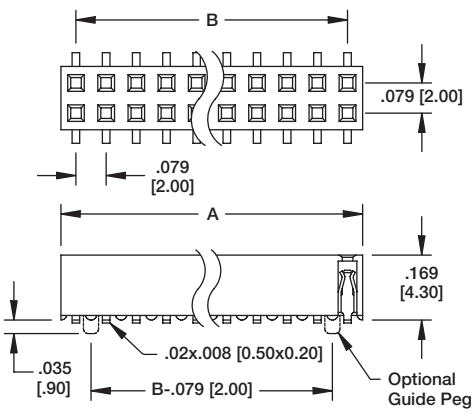
A = .079 [2.00] X No. of Positions
B = .079 [2.00] x No of Spaces

2RS1-15-SG-SMT-A



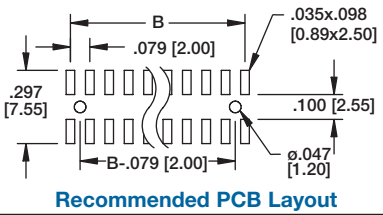
Recommended PCB Layout

2RS2-SMT



A = .079 [2.00] X No. of Positions Per Row
B = .079 [2.00] x No of Spaces

2RS2-32-SG-SMT

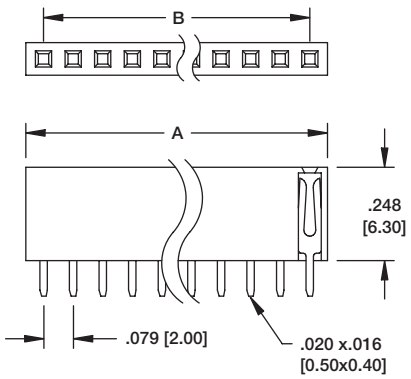


Recommended PCB Layout

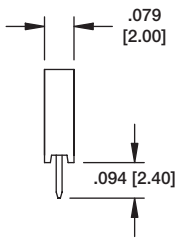
2.00mm RECEPTACLE STRIPS

.106" & .248" HEIGHT .079" [2.00] CENTERLINE

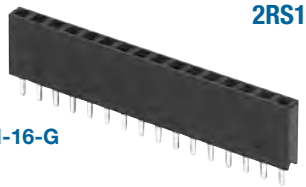
2RS SERIES



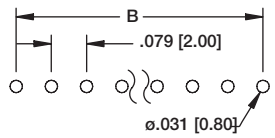
A = .079 [2.00] X No. of Positions
B = .079 [2.00] x No of Spaces



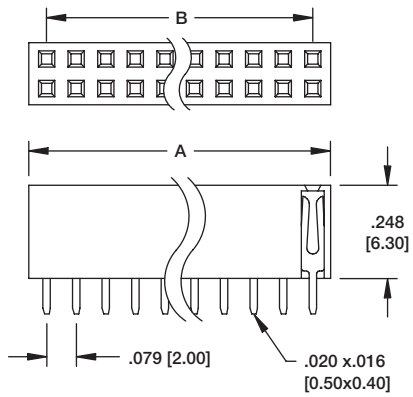
2RS1H



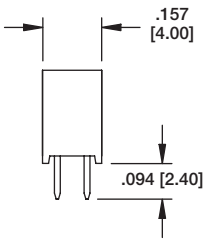
2RS1H-16-G



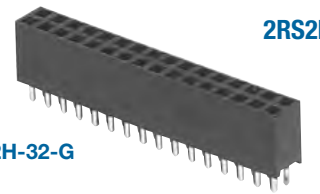
Recommended PCB Layout



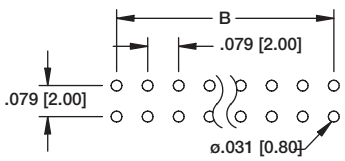
A = .079 [2.00] X No. of Positions Per Row
B = .079 [2.00] x No of Spaces



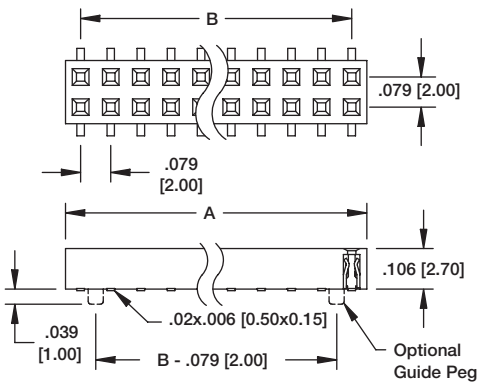
2RS2H



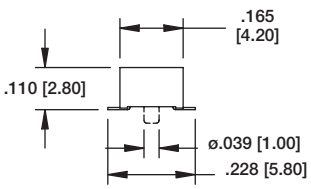
2RS2H-32-G



Recommended PCB Layout

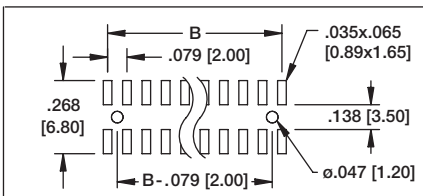


A = .079 [2.00] X No. of Positions Per Row
B = .079 [2.00] x No of Spaces

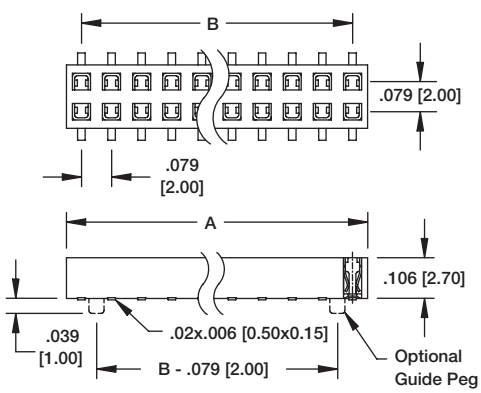


2RS2T-SMT
TOP ENTRY SOCKET

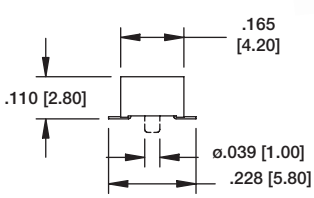
2RS2T-20-SG-SMT



Recommended PCB Layout

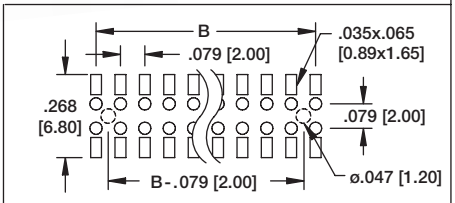


A = .079 [2.00] X No. of Positions Per Row
B = .079 [2.00] x No of Spaces



2RS2B-SMT
BOTTOM ENTRY SOCKET

2RS2B-20-SG-SMT



Recommended PCB Layout

.100" PIN HEADERS

.100" [2.54] CENTERLINE

PH SERIES

INTRODUCTION:
Adam Tech PH Series .100" Pin Headers are a full range headers in a variety of configurations including Single, Dual and Three rows, Straight or Right Angle in Thru-Hole or SMT mounting. Their close tolerance .025" sq. posts are smoothly finished and taper tipped to eliminate insertion damage to the PCB or mating connector. Adam Tech Pin Headers can be easily cut into exact sizes as required. Options include stacked insulator versions and choice of tin, gold or selective gold plating. This series is compatible with all industry standard .100" pitch pin headers.

FEATURES:
Single, Dual or Three Row
Tin, gold or selective gold plating options
Thru-hole or SMT mounting
Stacked and Custom length versions available
Versatile Breakaway design
Hi Temp Insulator available

MATING RECEPTACLES:
Mates with all industry standard receptacles accepting a .025" square post on .100" [2.54mm] centerlines

SPECIFICATIONS:

Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
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: 3 Amps max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:
Insertion force: 2 oz lbs max.
Withdrawal force: .75 oz lbs min
Mating durability: 1000 cycles min.

Temperature Rating:
Operating temperature: -40°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:
Anti-ESD plastic bags

SAFETY AGENCY APPROVALS:
UL Recognized File no. E224053

RoHS COMPLIANT

HI-TEMP INSULATOR AVAILABLE

ORDERING INFORMATION

PH1	40	U	A

SERIES INDICATOR
PH1 = Single Row, Straight
PH1RA = Single Row, Right Angle, High Profile
PH1RB= Single Row, Right Angle, Low Profile
PH2 = Dual Row, Straight
PH2RA = Dual Row, Right Angle
PH3 = Three Row, Straight
PH3RA = Three Row, Right Angle

POSITIONS
PH1: 1 thru 40
PH2: 2 thru 80
PH3: 3 thru 120

MATING/TAIL LENGTH
A = Mating Length ("C" dim.) = .235" Solder Tail ("D" dim.) = .120"
B = Mating Length ("C" dim.) = .318" Solder Tail Length ("D" dim.) = .120"
Special lengths available contact factory

PLATING
U = Gold flash overall
V = 15 µin gold on mating area 100 µin tin on solder tail
W = 30 µin gold on mating area 100 µin tin on solder tail
T = 100 µin tin overall
SG = Gold flash on mating area 100 µin tin on solder tail

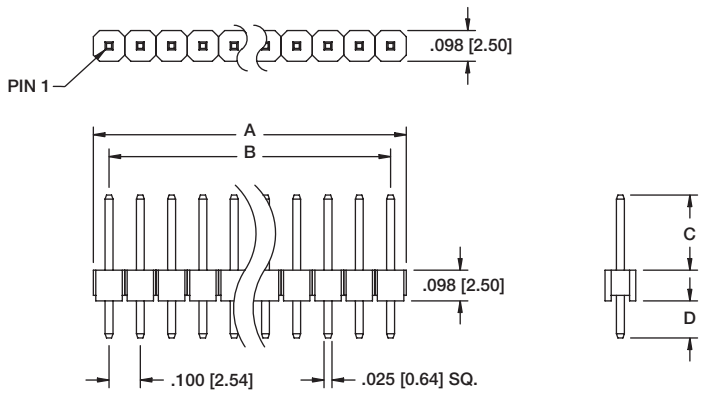
OPTIONS:
Add designator(s) to end of part number
SMT = Surface mount leads Dual row with Hi-Temp insulator
SMT-A = Surface mount leads Type A with Hi-Temp insulator
SMT-B = Surface mount leads Type B with Hi-Temp insulator
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C *(Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*
L = Low profile 1.50 mm insulator thickness

.100" PIN HEADERS

.100" [2.54] CENTERLINE

PH SERIES

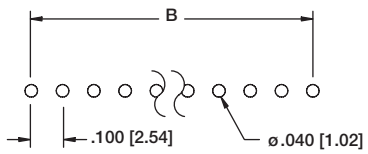
A = .100 [2.54] X No. of Positions.
B = .100 [2.54] X No. of Spaces.



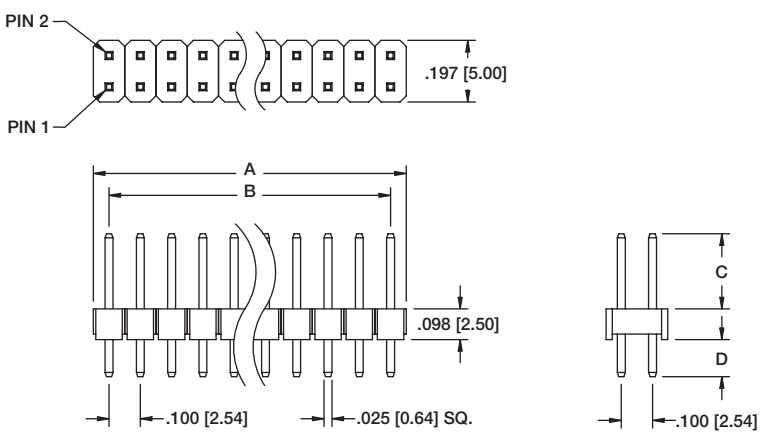
PH1
SINGLE ROW

PH1-16-UA

Recommended PCB Layout



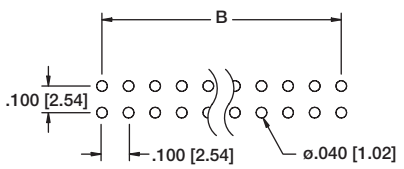
A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.



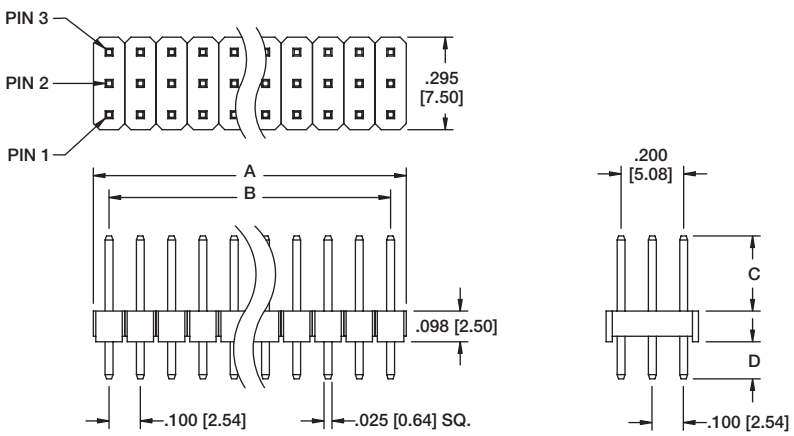
PH2
DUAL ROW

PH2-32-UA

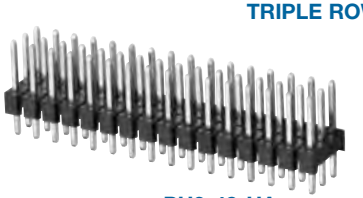
Recommended PCB Layout



A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

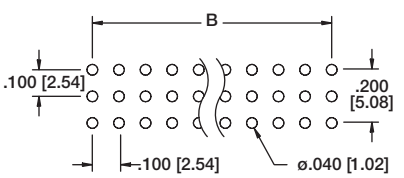


PH3
TRIPLE ROW



PH3-48-UA

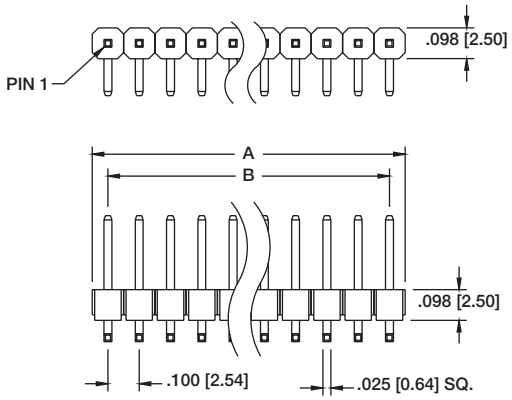
Recommended PCB Layout



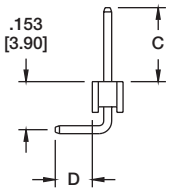
.100" PIN HEADERS

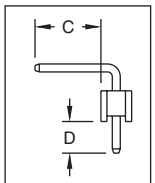
.100" [2.54] CENTERLINE

PH SERIES



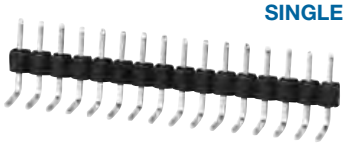
A = .100 [2.54] X No. of Positions.
B = .100 [2.54] X No. of Spaces.





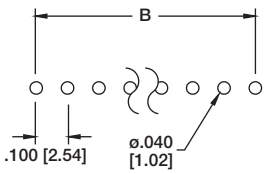
PH1RA

PH1RB
SINGLE ROW

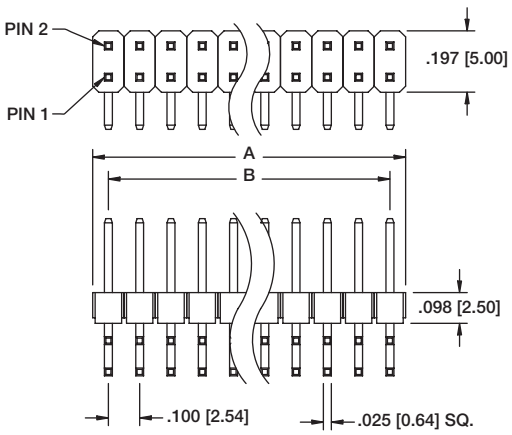


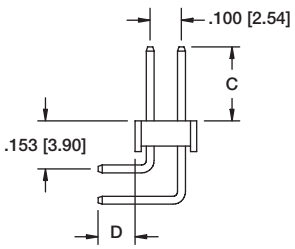
PH1RB-16-UA

Recommended PCB Layout



A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

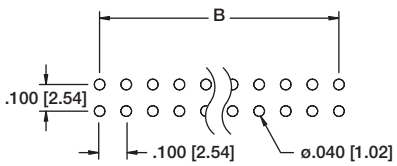




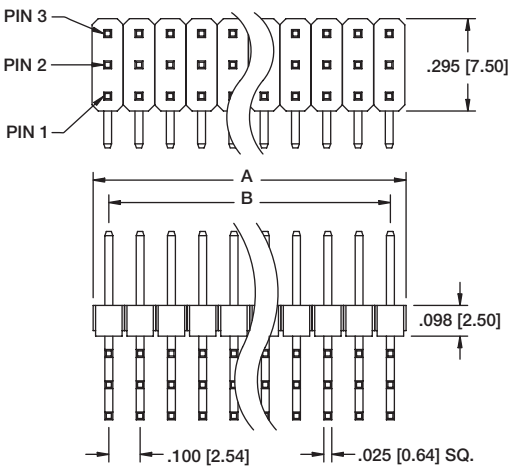
PH2RA
DUAL ROW

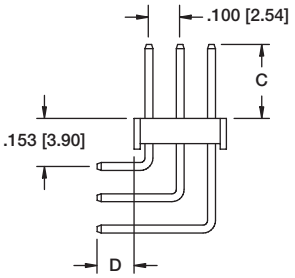
PH2RA-32-UA

Recommended PCB Layout



A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

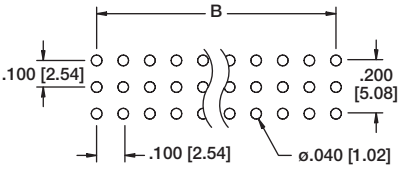




PH3RA
TRIPLE ROW

PH3RA-48-UA

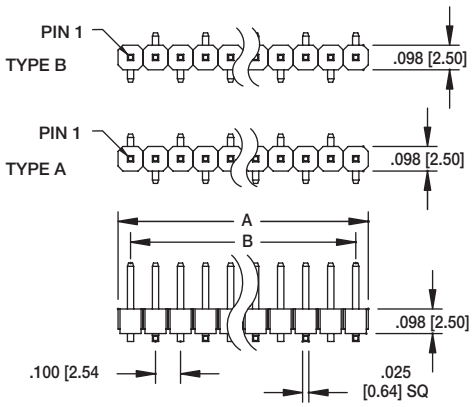
Recommended PCB Layout



.100" PIN HEADERS

.100" [2.54] SURFACE MOUNT

PH SERIES

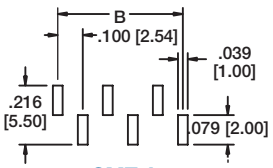


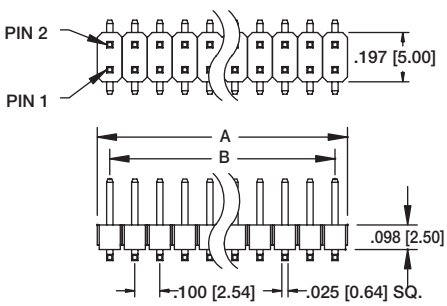
A = .100 [2.54] X No. of Positions.
B = .100 [2.54] X No. of Spaces.

PH1
SMT-SINGLE ROW
STRAIGHT

PH1-15-UA-SMT-B

Recommended PCB Layout

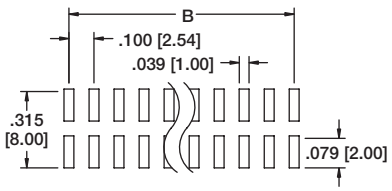




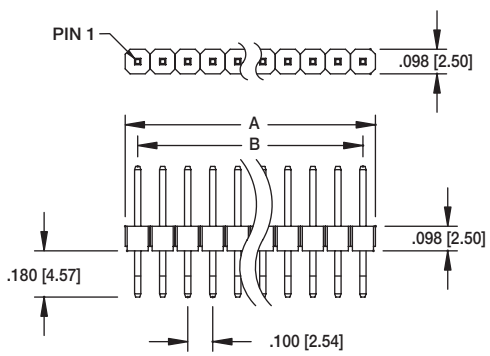
A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

PH2
SMT-DUAL ROW
STRAIGHT

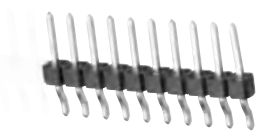
PH2-26-UA-SMT



Recommended PCB Layout

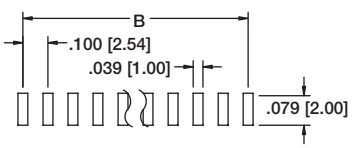


A = .100 [2.54] X No. of Positions.
B = .100 [2.54] X No. of Spaces.

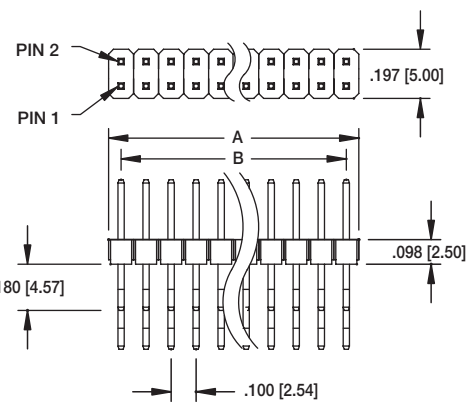


PH1RB
SMT-SINGLE ROW
RIGHT ANGLE

PH1RB-10-UA-SMT



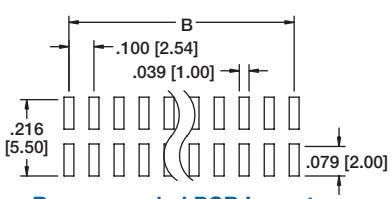
Recommended PCB Layout



A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

PH2RA
SMT-DUAL ROW
RIGHT ANGLE

PH2RA-20-UA-SMT



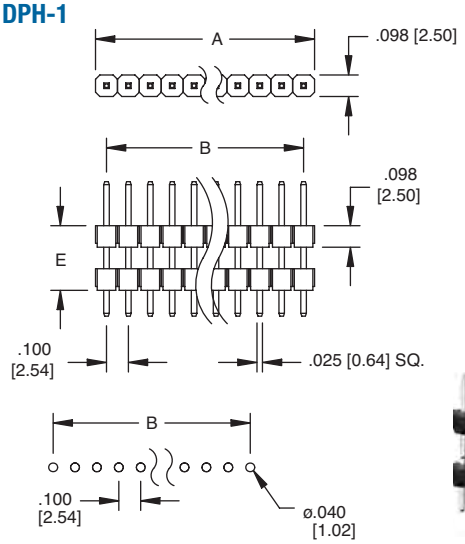
Recommended PCB Layout

.100" PIN HEADERS

DUAL INSULATOR .100" [2.54] CENTERLINE

DPH SERIES

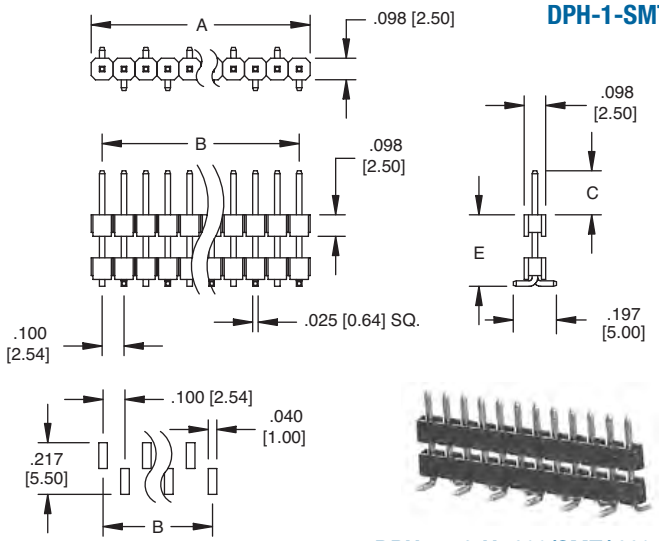
DPH-1



Recommended PCB Layout

DPH-1-10-U-.220/.100/.350

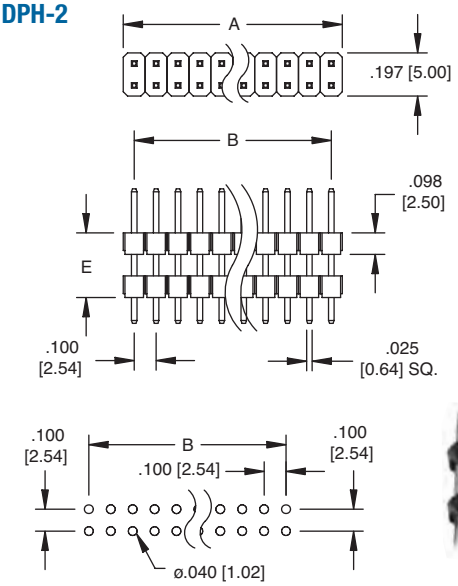
DPH-1-SMT



Recommended PCB Layout

DPH-1-12-U-.200/SMT/.220-B

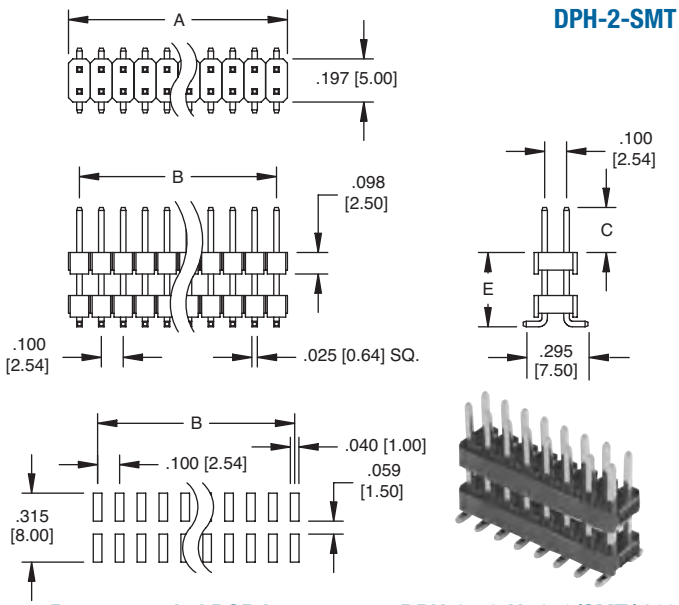
DPH-2



Recommended PCB Layout

DPH-2-22-U-.220/.100/.350

DPH-2-SMT



Recommended PCB Layout

DPH-2-16-U-.250/SMT/.300

ORDERING INFORMATION

DPH	2	20	SG	.XXX"/.XXX"/.XXX" (C DIM) (D DIM) (E DIM)

SERIES INDICATOR
DPH =Dual insulator .100" centerline

NO. OF ROWS
1 = Single row
2 = Dual row
3 = Triple row

POSITIONS
1 thru 40 (single row)
4 thru 80 (dual row)
3 thru 120 (triple row)

PLATING
U = Gold plated
T = Tin plated
SG = Gold plating in contact area, tin plating on solder tails

SPECIFIED IN INCHES AS:
C DIM. / D DIM. / E DIM.
(replace D Dim. with SMT for surface mount option)

A = .100 [2.54] x No. of Positions.
B = .100 [2.54] x No. of Spaces.

MINI SHUNTS

.050", 2mm, .100" & .200" CENTERLINE

MS SERIES

INTRODUCTION:
Adam Tech MS Series Mini Shunts are available in .050", 2.0mm, .100" and .200" centerlines. They quickly and easily jump individual pins on pin headers to perform manual programming on PCB's. This series offers a broad range of sizes, shapes and colors. Shunts are designed with detents at top for easy fingertip installation and removal. Options include integrated pull tabs and gang types which are molded in one piece. This series is extremely low cost and is a highly economical, cost effective solution to replacing PCB switches. Adam Tech's shunts are available in Gold or Tin plating.

FEATURES:
Electrically connects two or more pin header posts
Wide variety of bodies and styles to choose from
Superior insulator design provides easy Fingertip extraction
Pull Tab and Ganged options available
Choice of Gold or Tin-plated contact area
Side and end stackable

MATING OPTIONS:
Mates with .025" sq. pin headers on .100" centers and all industry standard pin headers with .025" square post on .100" [2.54mm] centerlines.

SPECIFICATIONS:

Material:
Insulator: PBT, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

Contact Plating:
G = Gold over nickel underplate overall
T = Tin over copper underplate overall

Electrical:
Operating voltage: 250V AC max.
Current rating: 3 Amps max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:
Insertion force: 1.57 lbs max.
Withdrawal force: .65 lbs min
Mating durability: 50 Cycles Gold
20 Cycles Tin

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

PACKAGING:
Anti-ESD plastic bags

SAFETY AGENCY APPROVALS:
UL Recognized File no. E224053

ORDERING INFORMATION

MSB **G**

BODY STYLE/HEIGHT
MSA = Closed top, .256"
MSB = Open top, .236"
MSC = Open top, .177"
MSDA = Closed top, .315"
MSDB = Open top, .315"
MSBH = Handle-top, .531"
HMSA = .050" Mini Shunt (1 x 2)
HMSB = .050" Mini Shunt (2 x 2)
HMSC = .050" Mini Shunt, .118"
MSE = Closed top, 3 position
MST = 10 piece strip
MSBG = Ganged, block type
(Specify # of positions, 2 thru 10)

PLATING
G = Gold plated
T = Tin plated

2.00mm SHUNTS - pg. 267

OPTIONS:
Add designator(s) to end of part number
30 = 30 μin gold plating in contact area

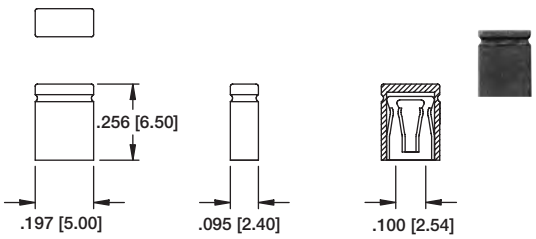
STANDARD INSULATOR COLOR IS BLACK
Other insulator colors available
Add designator(s) to end of part number
R = Red *
B = Blue *
W = White *
Y = Yellow *
G = Green *
* Minimum order required

.100" MINI SHUNTS

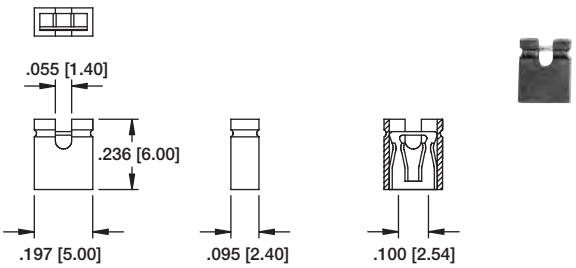
.100" [2.54] CENTERLINE

MS SERIES

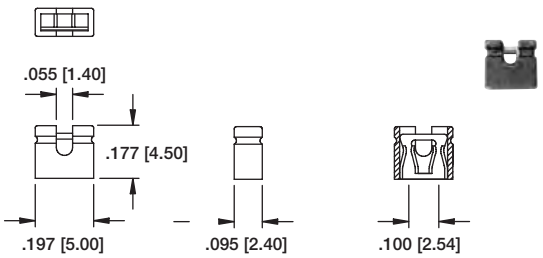
MSA
.100"



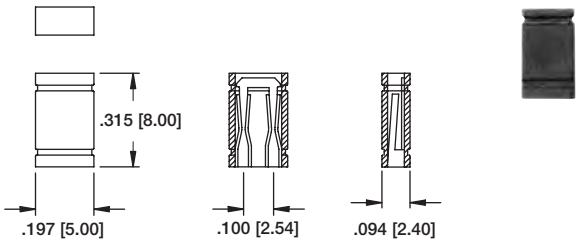
MSB
.100"



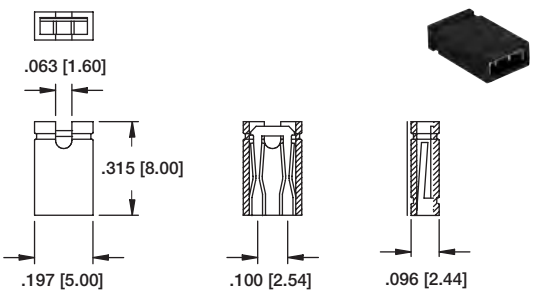
MSC
.100"



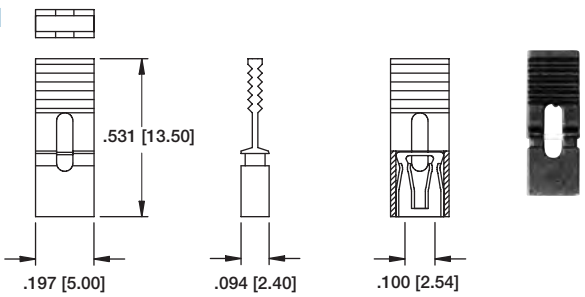
MSDA
.100"



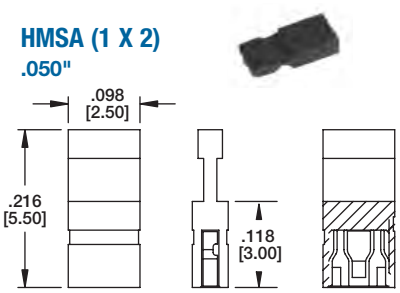
MSDB
.100"



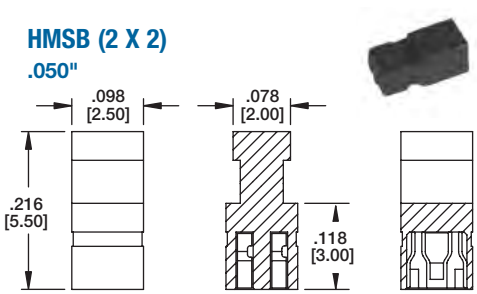
MSBH
.100"



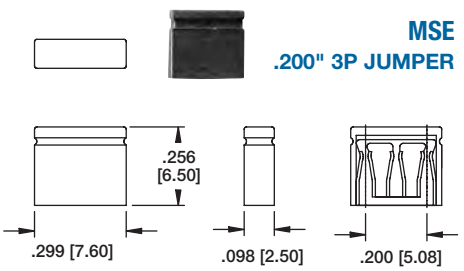
HMSA (1 X 2)
.050"



HMSB (2 X 2)
.050"

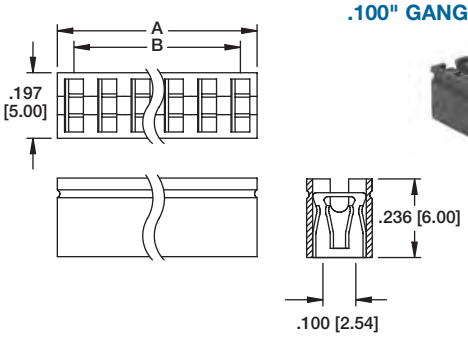


MSE
.200" 3P JUMPER

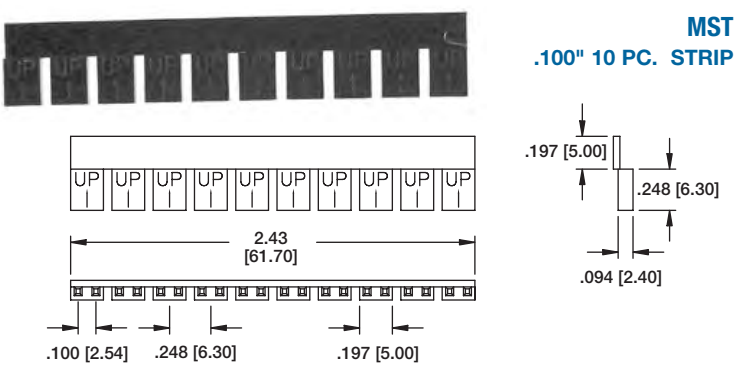


A - .100 [2.54] X No of Positions
B = .100 [2.54] X No of Spaces

MSBG
.100" GANGED BLOCK



MST
.100" 10 PC. STRIP



.100" BOX HEADERS

.100" X .100" [2.54 X 2.54] CENTERLINE

BHR SERIES

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 reinforeced, 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 File no. E224053

RoHS COMPLIANT
HI-TEMP INSULATOR AVAILABLE

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

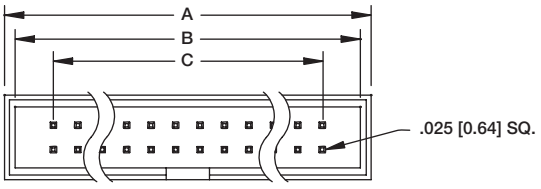
OPTIONS:
Add designator(s) to end of part number
LL = Box header with long plastic latches
SL = Box header with short plastic latches
ML = Box header with long metal latches
MS = Box header with short metal latches
30 = 30 μin gold plating in contact area
GY = Gray color insulator
HT = Hi-Temp insulator 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)*

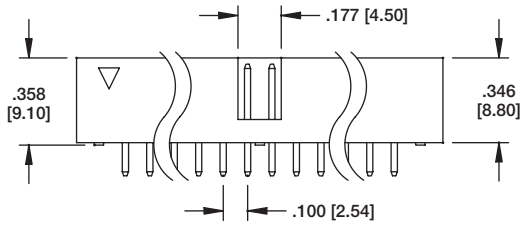
.100" BOX HEADERS

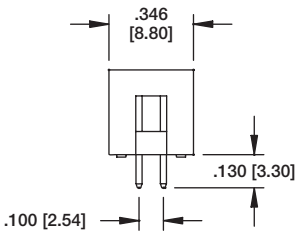
.100" X .100" [2.54 X 2.54] CENTERLINE

BHR SERIES

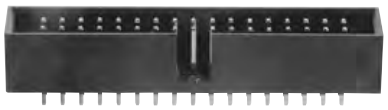
BHR
STRAIGHT PCB MOUNT



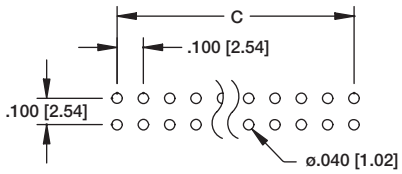




A = .100 [2.54] X No. of Positions /2 + .300 [7.62]
B = .100 [2.54] X No. of Positions /2 + .200 [5.08]
C = .100 [2.54] X No. of Spaces

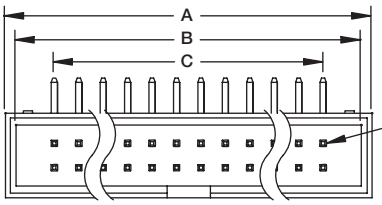


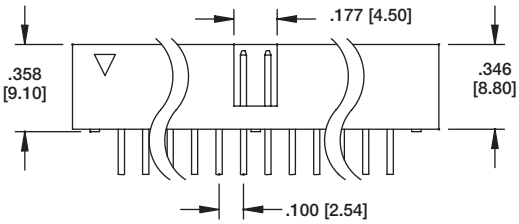
BHR-34-VUA

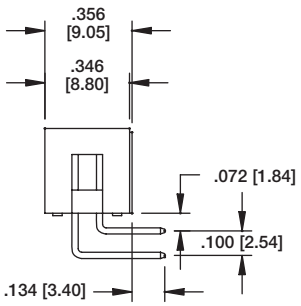


Recommended PCB Layout

BHR
RIGHT ANGLE PCB MOUNT

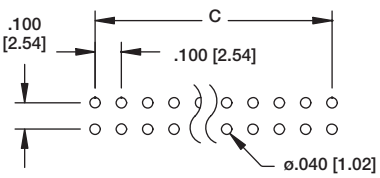






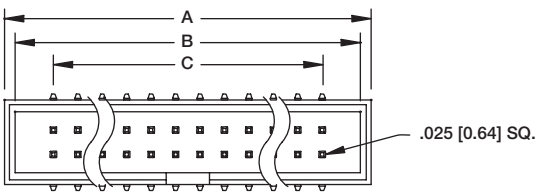
A = .100 [2.54] X No. of Positions /2 + .300 [7.62]
B = .100 [2.54] X No. of Positions /2 + .200 [5.08]
C = .100 [2.54] X No. of Spaces

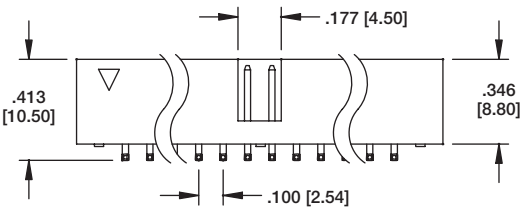
BHR-34-HUA

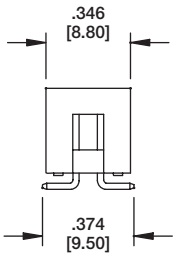


Recommended PCB Layout

BHR
SURFACE MOUNT

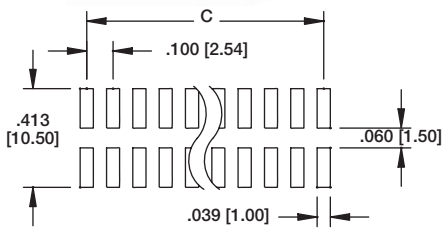






A = .100 [2.54] X No. of Positions /2 + .300 [7.62]
B = .100 [2.54] X No. of Positions /2 + .200 [5.08]
C = .100 [2.54] X No. of Spaces

BHR-30-VSG-SMT



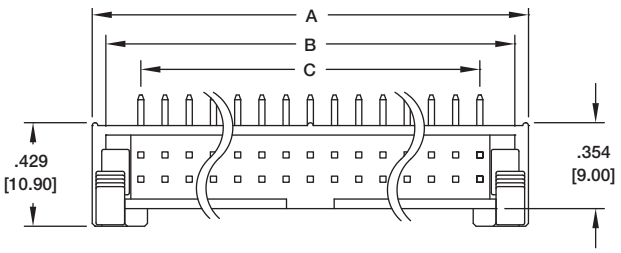
Recommended PCB Layout

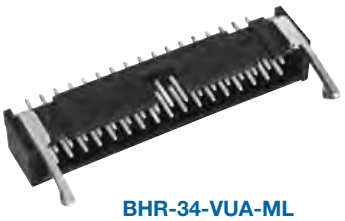
.100" BOX HEADER W/LATCHES

.100" X .100" [2.54 X 2.54] CENTERLINE

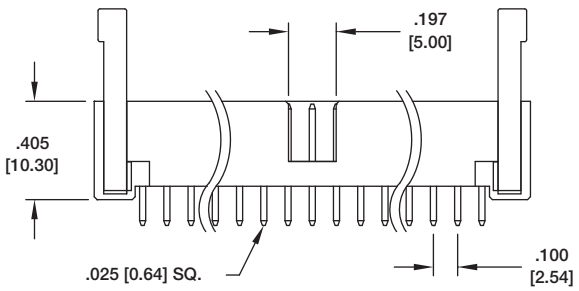
BHR SERIES

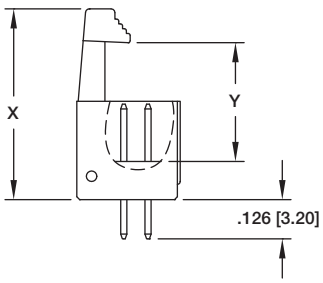
BHR
STRAIGHT MOUNT BOX HEADER WITH LATCHES





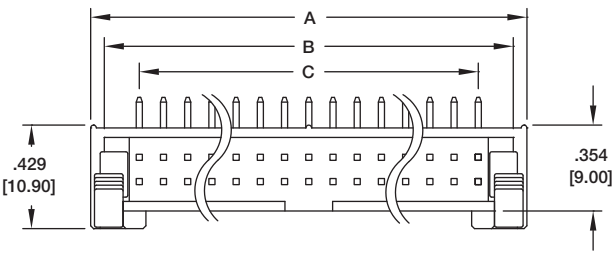
BHR-34-VUA-ML

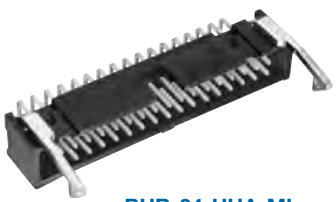




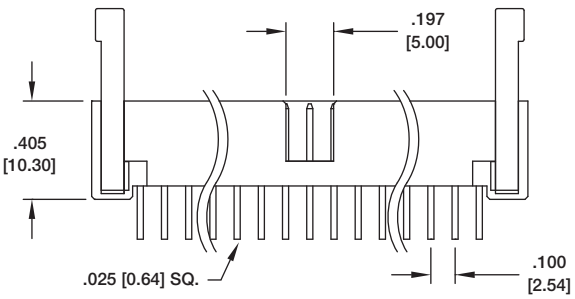
= .100 [2.54] X No. of Positions /2 + .301 [7.66]
= .100 [2.54] X No. of Positions /2 + .189 [4.80]
= .100 [2.54] X No. of Positions /2 -1

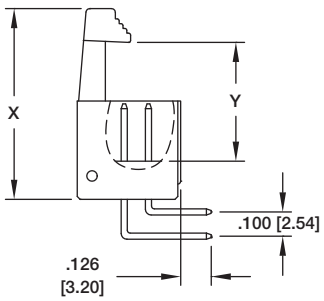
BHR
RIGHT ANGLE MOUNT BOX HEADER WITH LATCHES



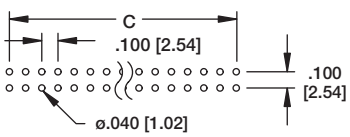


BHR-34-HUA-ML





A = .100 [2.54] X No. of Positions /2 + .301 [7.66]
B = .100 [2.54] X No. of Positions /2 + .189 [4.80]
C = .100 [2.54] X No. of Positions /2 -1



Recommended PCB Layout

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

.100" ELEVATED BOX HEADERS

.100" X .100" [2.54 X 2.54] CENTERLINE

BHRE SERIES

INTRODUCTION:
Adam Tech BHRE Series Elevated Box Headers provide all of the advantages of our standard Box Headers such as our Low Profile design, snug fit & polarized mating but have additional plastic insulators in place to stabilize rows of pins for stacking applications. This series is available in Straight, Right Angle & SMT mounting with standard or customer specified Stacking Heights and PCB tail lengths.

FEATURES:
Elevated for Stacking applications
Low Profile design
Straight, Right Angle & SMT mounting options
Standard or customer specified Stacking
Heights & PCB tail lengths

MATING SOCKETS:
Adam Tech .100" X .100" dual row IDC sockets

SPECIFICATIONS:

Material:
Insulator: PBT, glass reinforeced, 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 mΩmax. initial
Insulation resistance: 5000 MΩmin.
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 File no. E224053

RoHS COMPLIANT

HI-TEMP INSULATOR AVAILABLE

ORDERING INFORMATION

BHRE	50	V	U	A	XXX

SERIES INDICATOR
BHRE = .100" Elevated Box Header

POSITIONS
10, 14, 16, 20, 24, 26, 30, 34, 40, 50, 60, 64

MOUNTING ANGLE
V = Vertical
H = Horizontal

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

PIN LENGTHS
A = Standard solder tail
B = Special length, solder tail customer specified
SMT = Surface Mount

HEIGHT DIM X
Customer specified in inches

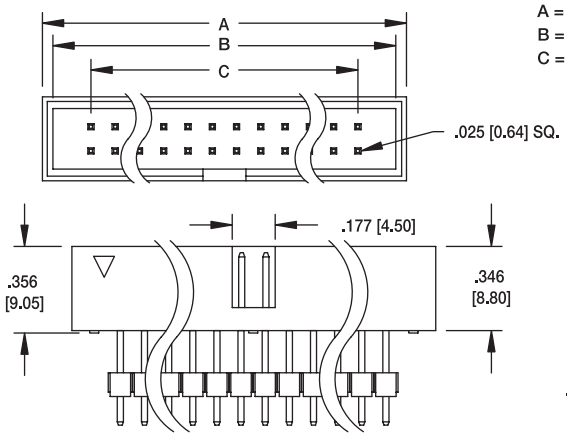
OPTIONS:
Add designator(s) to end of part number
30 = 30u" Gold on contact area
GY = Gray color insulator
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C *(Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*

.100" ELEVATED BOX HEADERS

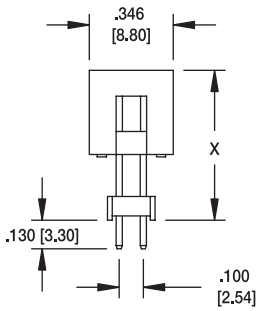
.100" X .100" [2.54 X 2.54] CENTERLINE

BHRE SERIES

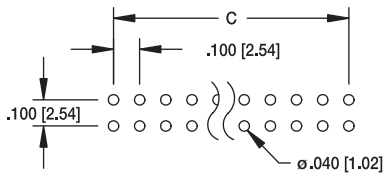
BHRE
ELEVATED STRAIGHT
PCB MOUNT



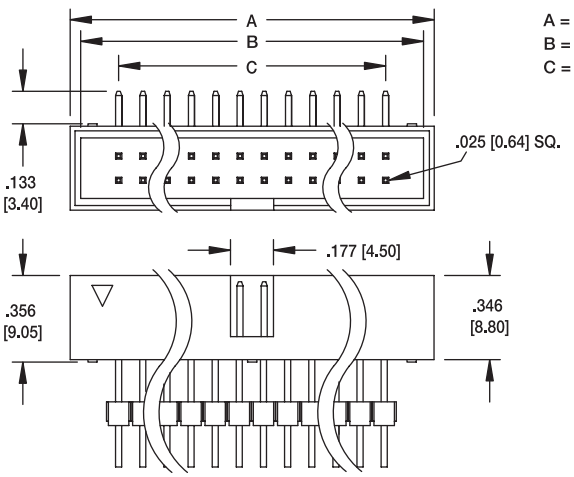
A = .100 [2.54] X No. of Positions /2 + .300 [7.62]
B = .100 [2.54] X No. of Positions /2 + .200 [5.08]
C = .100 [2.54] X No. of Spaces



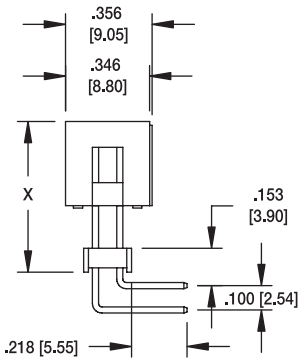
BHRE-26-VUA-.477



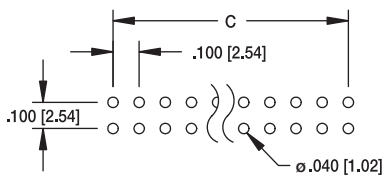
BHRE
ELEVATED RIGHT ANGLE
PCB MOUNT



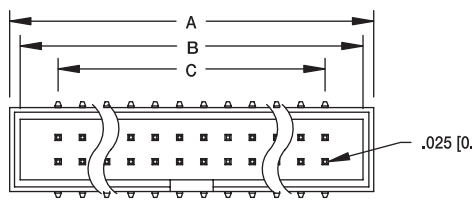
A = .100 [2.54] X No. of Positions /2 + .300 [7.62]
B = .100 [2.54] X No. of Positions /2 + .200 [5.08]
C = .100 [2.54] X No. of Spaces



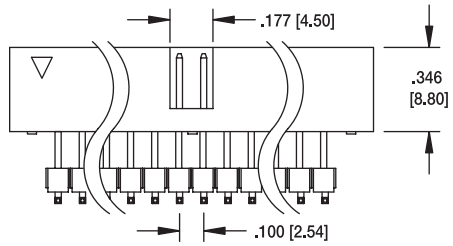
BHRE-26-HUA-.477

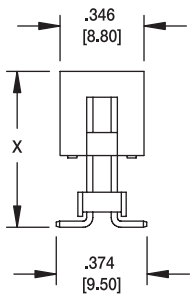


BHRE
ELEVATED SMT

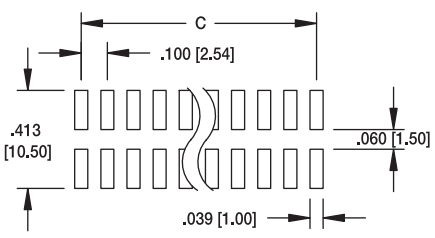


A = .100 [2.54] X No. of Positions /2 + .300 [7.62]
B = .100 [2.54] X No. of Positions /2 + .200 [5.08]
C = .100 [2.54] X No. of Spaces





BHRE-20-VU-SMT-.477



.100" LATCH HEADER

.100" X .100" [2.54 X 2.54] CENTERLINE

MHR SERIES

INTRODUCTION:
Adam Tech MHR Series .100" pitch 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:
.100" 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: 3 Amps 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.

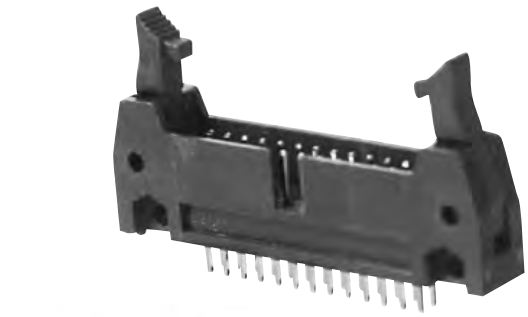
Temperature Rating:
Operating temperature: -40°C to +105°C

PACKAGING:
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:
UL Recognized File no. E224053

RoHS COMPLIANT

HI-TEMP INSULATOR AVAILABLE



ORDERING INFORMATION

MHR	40	V	U	A	L

SERIES INDICATOR
MHR = .100" Shrouded Header with Latches

POSITIONS
10, 14, 16, 20, 24, 26, 30, 34, 40, 50, 60, 64

MOUNTING ANGLE
V = Straight Mount
H = Right Angle Mount

This series is availabe in an elevated version similar to our BHRE Series as shown on pgs. 322-323

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
GY = Gray color insulator
HT = High-temp insulator for high-temp soldering processes

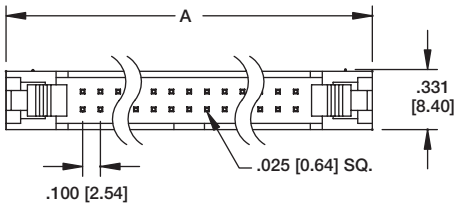
.100" LATCH HEADER

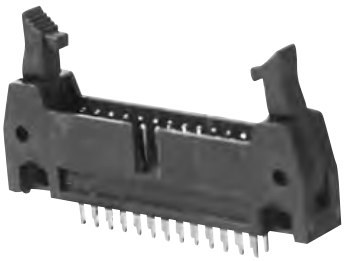
.100" X .100" [2.54 X 2.54] CENTERLINE

MHR SERIES

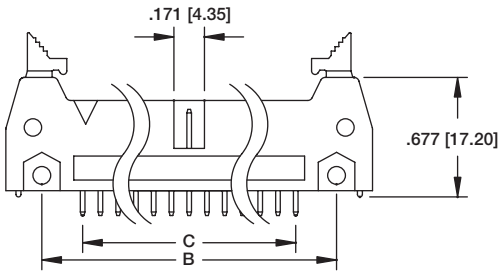
MHR
STRAIGHT PCB MOUNT

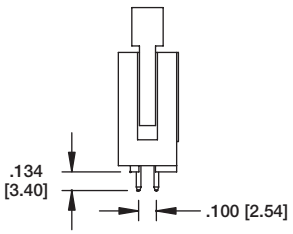
A = .100 [2.54] x No. of Spaces + .860 [21.84]
B = .100 [2.54] x No. of Spaces + .460 [11.68]
C = .100 [2.54] x No. of Spaces



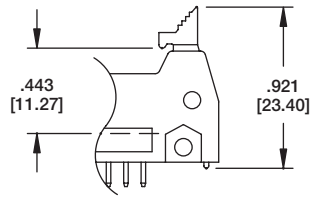


MHR-26-VUAL

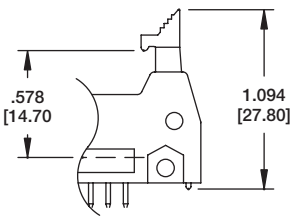




Latch Options

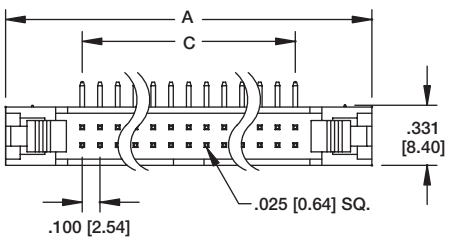


Header with Short Ejector/Latch for Sockets without Strain Reliefs



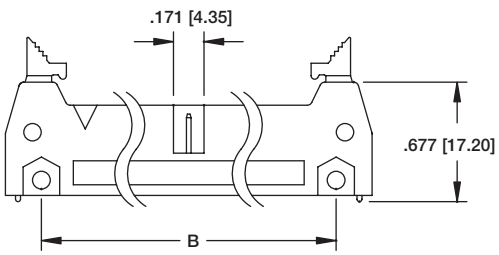
Header with Long Ejector/Latch for Sockets with Strain Reliefs

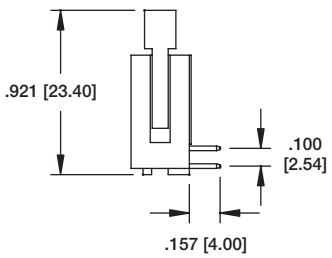
MHR
RIGHT ANGLE PCB MOUNT

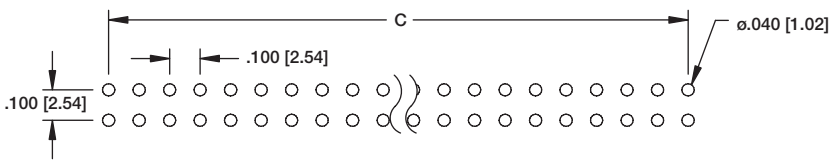


A = .100 [2.54] x No. of Spaces + .860 [21.84]
B = .100 [2.54] x No. of Spaces + .460 [11.68]
C = .100 [2.54] x No. of Spaces

MHR-26-HUAL







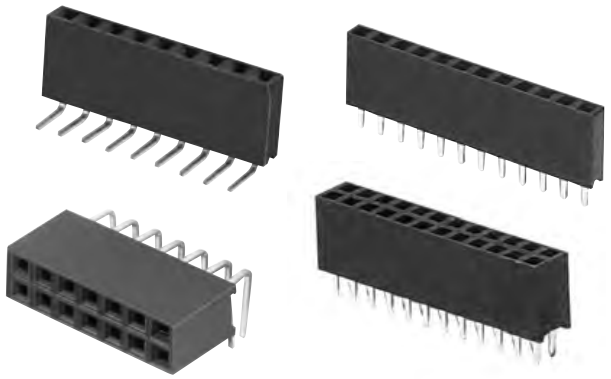
Recommended PCB Layout

ADAM TECH

ADVANCED INTERCONNECT PRODUCTS AND SYSTEMS

.100" RECEPTACLE STRIPS

SINGLE AND DUAL ROW
.100" [2.54] CENTERLINE
RS SERIES



INTRODUCTION:
Adam Tech RS Series .100" pitch Receptacle Strips are a series of sockets offered in a multitude of sizes and profiles designed to satisfy most .100" pitch socket requirements. Available in Single, Dual and Triple row, they are offered in Straight, Right Angle, SMT, Bottom Entry and Pass Through PCB mounting styles. Each type has a specially designed contact system which uses a wiping mating action and produces a high normal force connection with gold, tin or selective gold plating. All are available with Standard or Hi-Temp Thermoplastic insulators. Our SMT offering is available with optional pick and place pads and tape & reel packaging.

FEATURES:
Broad range of sizes and profiles
Contact systems with high normal force
Choice of contact plating
SMT pick & place option
Optional Tape & reel packaging

MATING CONNECTORS:
Adam Tech PH series .100" pitch pin headers and all industry standard pin headers with a .025" (0.64mm] square pin.

SPECIFICATIONS:

Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

Contact Plating:
G = Gold over nickel underplate overall
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: 3 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:
Insertion force: 0.375 lbs per contact max.
Withdrawal force: 0.125 lbs per contact min.

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

PACKAGING:
Anti-ESD plastic trays
(Tape and Reel optional for SMT option)

SAFETY AGENCY APPROVALS:
UL Recognized File no. E224053

RoHS COMPLIANT

HI-TEMP INSULATOR AVAILABLE

ORDERING INFORMATION

RS1 | **12** | **G**

SERIES INDICATOR
RS1 = Single row vertical mount receptacle
RS1R = Single row right angle mount receptacle
RS2 = Dual row vertical mount receptacle
RS2R = Dual row right angle mount receptacle
RSB = Dual row straight PCB mount with polarization bump and keyed corner contacts
RSBR = Dual row right angle PCB mount with polarization bump and keyed corner contacts
RSE1 = Single row elevated recepticle
RSE2 = Dual row elevated recepticle
RSM1 = Single row surface mount
RSM2 = Dual row surface mount

POSITIONS
Single row: 1 thru 40
Dual row: 2 thru 80

PLATING
G = Gold plated
T = Tin plated
SG = Gold plating in contact area, Tin Plated solder tails

OPTIONS:
Add designator(s) to end of part number
SMT = SMT Dual row with Hi-Temp insulator
SMT-A = SMT Single Row Type A with Hi-Temp insulator
SMT-B = SMT Single Row Type B with Hi-Temp insulator
30 = 30 μin gold plating in contact area
P = Optional guide peg on SMT version
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)*

.100" RECEPTACLE STRIPS
ORDERING INFORMATION

RECEPTACLE STRIPS
FOUR SIDED CONTACT
PAGE 293, 294 & 298

RS1B | **26** | **G**

SERIES INDICATOR
RS1B = Single row, vertical mount 4-sided contact receptacle strip
RS2B = Dual row, vertical mount 4-sided contact receptacle strip
RS1BR = Single row, right angle mount, 3-sided contact receptacle strip
RS2BR = Dual row, right angle mount, 3-sided contact receptacle strip

POSITIONS
Single row: 2 thru 40
Dual row: 4 thru 80

PLATING
G = Gold plated
T = Tin plated
SG = Gold plated contact area, tin plated solder tails

RECEPTACLE STRIPS
LOW PROFILE
PAGE 297

RS1L | **34** | **G**

SERIES INDICATOR
RS1L = Single row, .224" body height
RS2L = Dual row, .224" body height

POSITIONS
Single row: 2 thru 40
Dual row: 4 thru 80

PLATING
G = Gold plated
T = Tin plated

RECEPTACLE STRIPS
BOTTOM, PASS THROUGH OR DUAL ENTRY

RS2BE | **A** | **40** | **G**

SERIES INDICATOR
RS1BE = Single row, vertical mount, bottom, pass through or dual entry receptacle strip
RS2BE = Dual row, vertical mount, bottom, pass through or dual entry receptacle strip
RS2BE-A = Dual row, with single sided footprint, vertical mount, bottom, pass through or dual entry receptacle strip

SOLDER TAIL FOOTPRINT
A = .100" x .150"
B = .100" x .200"
C = .100" x .300"
Blank = Single row

POSITIONS
Single Row: 2 thru 40
Dual Row: 4 thru 80

PLATING
G = Gold plated

RECEPTACLE STRIPS
VERY LOW PROFILE
PAGE 292

RSVL | **2A** | **10** | **G**

SERIES INDICATOR
RSVL = Vertical Mount, very low profile receptacle strip

PROFILE / NO. OF ROWS
1A = Single row, .138" body height
1B = Single row, .205" body height
2A = Dual row, .138" body height
2B = Dual row, .205" body height

POSITIONS
Single Row:
Dual Row: 4 Thru 72

PLATING
G = Gold plated
T = Tin plated

OPTIONS:
Add designator(s) to end of part number
A = Type A PCB Layout
B = Type B PCB Layout

.100" RECEPTACLE STRIPS

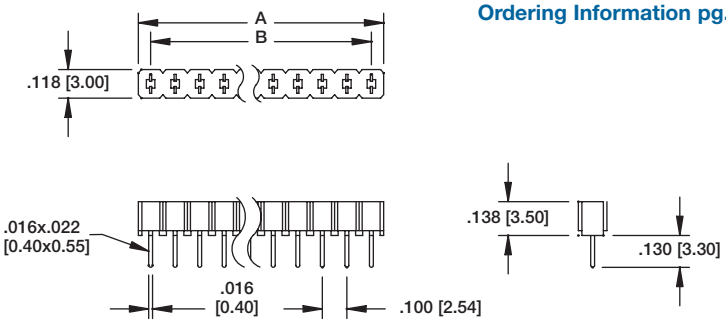
.138" & .205" HEIGHT SINGLE AND DUAL ROW

RS SERIES

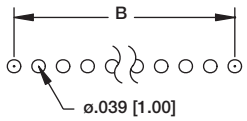
Ordering Information pg. 291

RSVL-1A

RSVL-1A-18-G



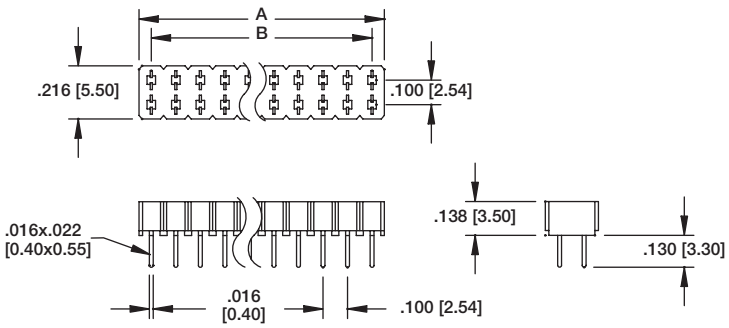
A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces



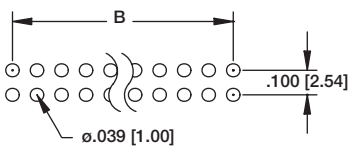
Recommended PCB Layout

RSVL-2A

RSVL-2A-38-G



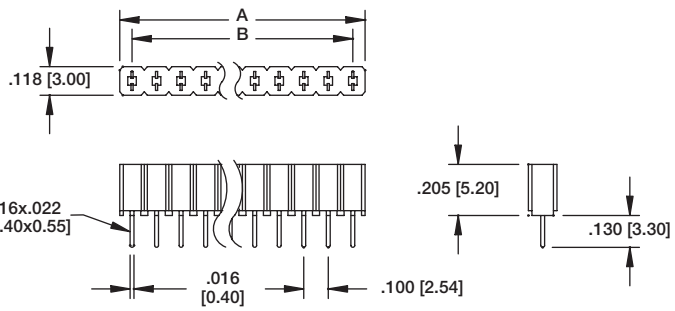
A = .100 [2.54] X No. of Positions Per Row
B = .100 [2.54] X No. of Spaces



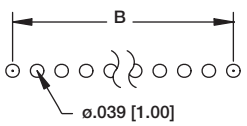
Recommended PCB Layout

RSVL-1B

RSVL-1B-18-G



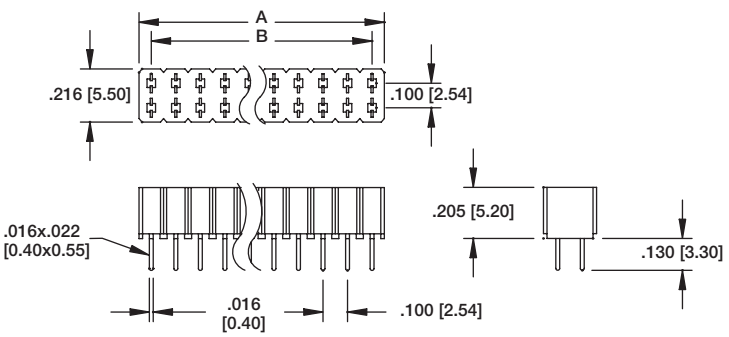
A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces



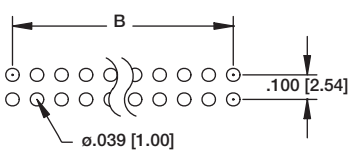
Recommended PCB Layout

RSVL-2B

RSVL-2B-36-G



A = .100 [2.54] X No. of Positions Per Row
B = .100 [2.54] X No. of Spaces



Recommended PCB Layout

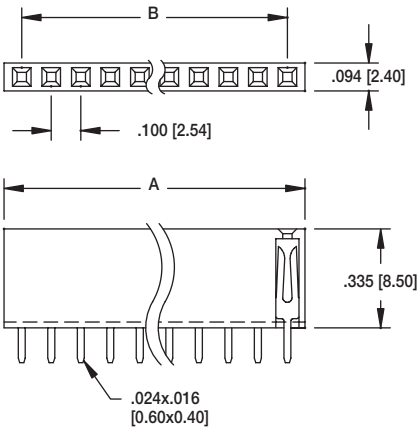
.100" RECEPTACLE STRIPS

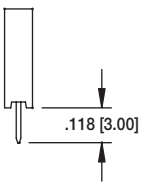
.335" HEIGHT, .100" [2.54] CENTERLINE

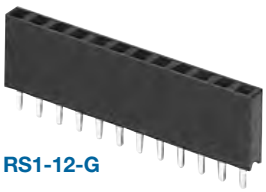
RS SERIES

Ordering Information pg. 290

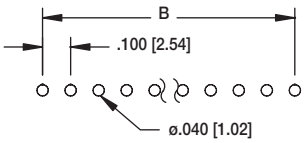
RS1







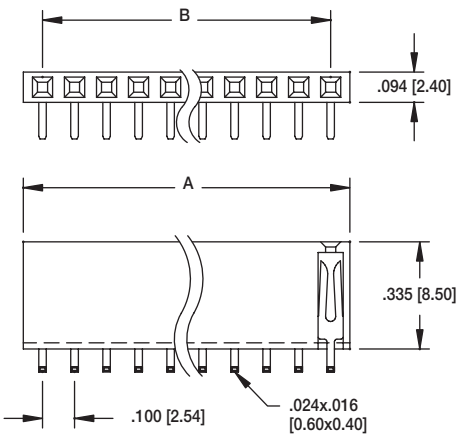
RS1-12-G

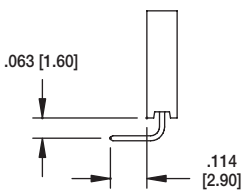


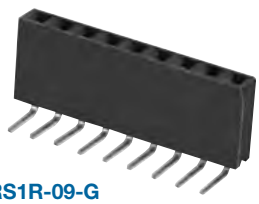
Recommended PCB Layout

A = .100 [2.54] X No. of Positions +.020 [0.50]
B = .100 [2.54] X No. of Spaces

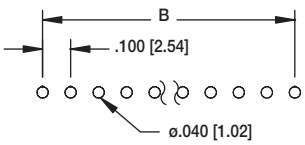
RS1R







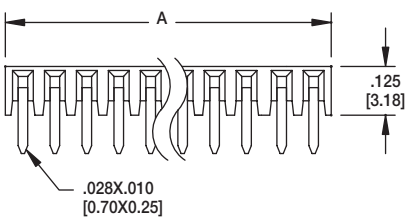
RS1R-09-G

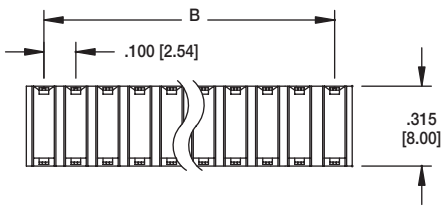


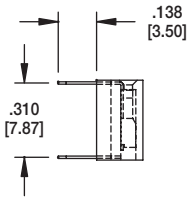
Recommended PCB Layout

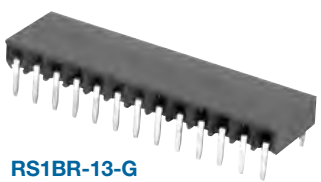
A = .100 [2.54] X No. of Positions +.020 [0.50]
B = .100 [2.54] X No. of Spaces

RS1BR

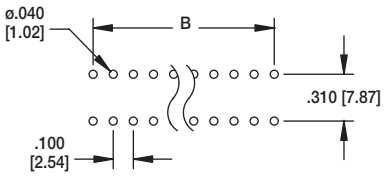








RS1BR-13-G



Recommended PCB Layout

A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces

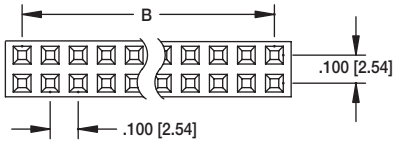
.100" RECEPTACLE STRIPS

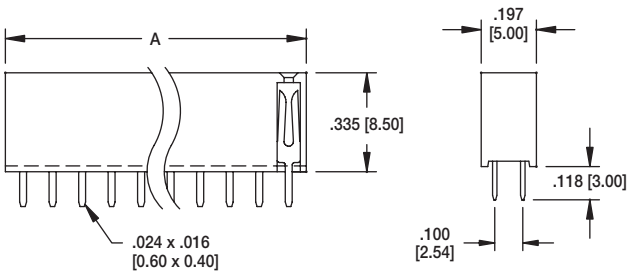
.335" HEIGHT, .100" [2.54] CENTERLINE

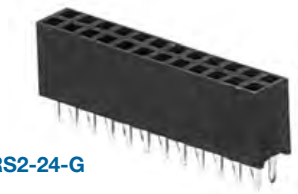
RS SERIES

Ordering Information pg. 290-291

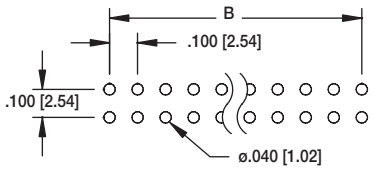
RS2







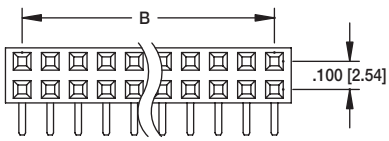
RS2-24-G

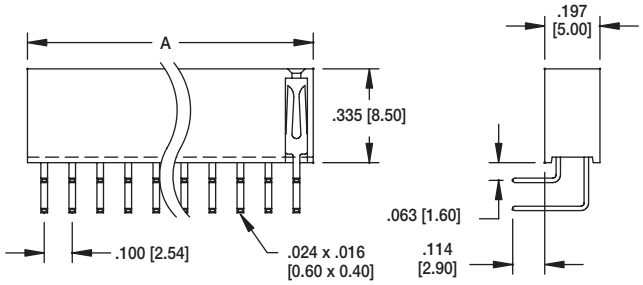


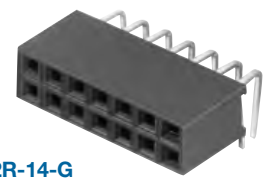
Recommended PCB Layout

A = .100 [2.54] x No. of Positions per row +.020 [0.50]
B = .100 [2.54] x No. of Spaces

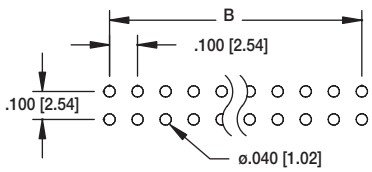
RS2R







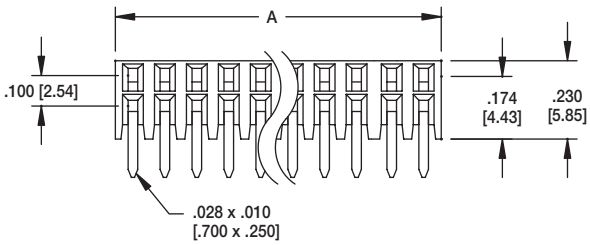
RS2R-14-G

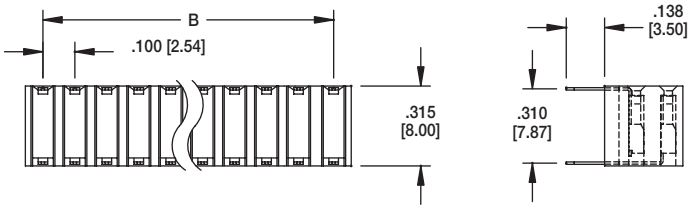


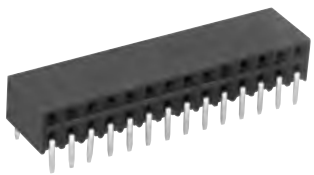
Recommended PCB Layout

A = .100 [2.54] x No. of Positions per row +.020 [0.50]
B = .100 [2.54] x No. of Spaces

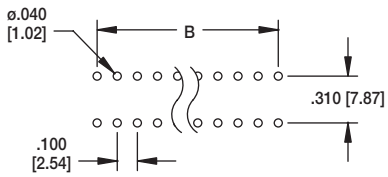
RS2BR







RS2BR-28-G



Recommended PCB Layout

A = .100 [2.54] x No. of Positions per row
B = .100 [2.54] x No. of Spaces

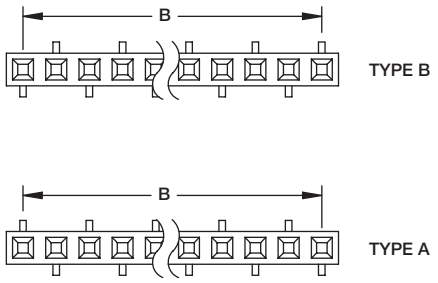
.100" RECEPTACLE STRIPS

SMT .283" HEIGHT, .100" [2.54] CENTERLINE

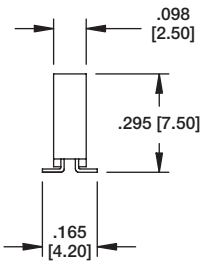
RS SERIES

Ordering Information pg. 290

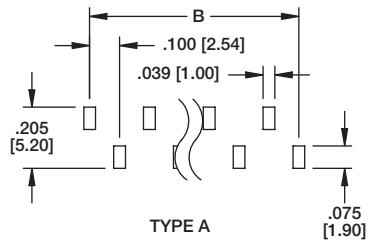
RSM1



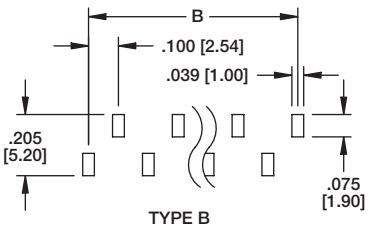
RSM1-10-SG-SMT-A



A = .100 [2.54] x No. of Positions
B = .100 [2.54] x No. of Spaces

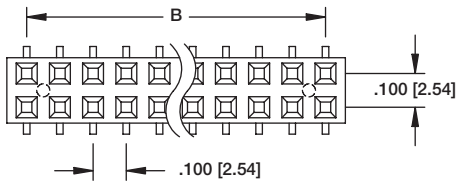


Recommended PCB Layout

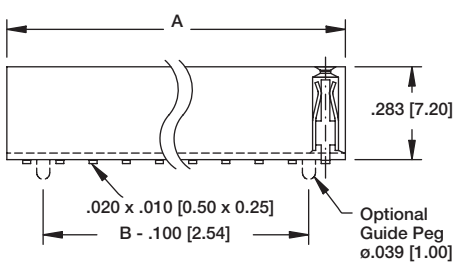


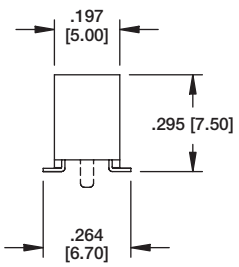
Recommended PCB Layout

RSM2

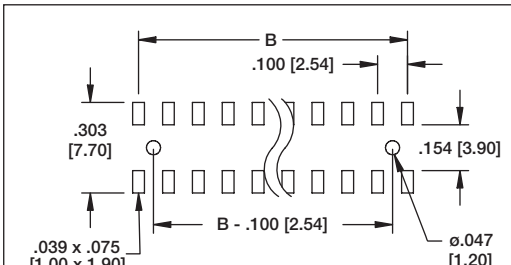


RSM2-20-SG-SMT





A = .100 [2.54] x No. of Positions per row
B = .100 [2.54] x No. of Spaces



Recommended PCB Layout

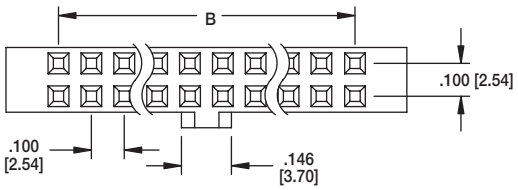
.100" RECEPTACLE STRIPS

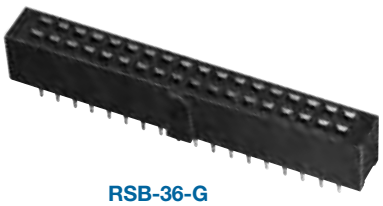
.335" HEIGHT WITH POLARIZING BUMP

RS SERIES

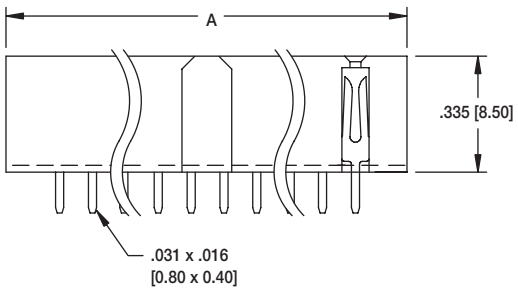
Ordering Information pg. 290

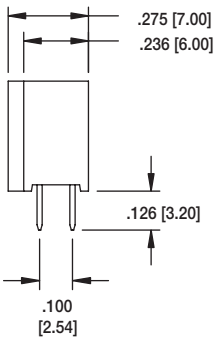
RSB

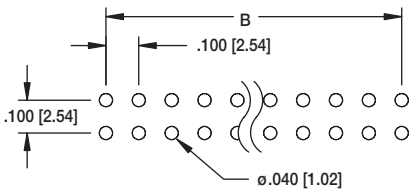




RSB-36-G



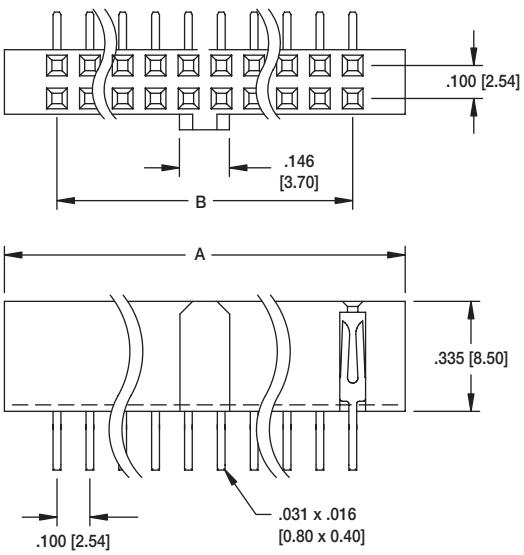


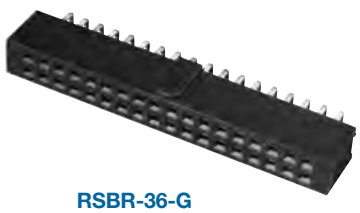


Recommended PCB Layout

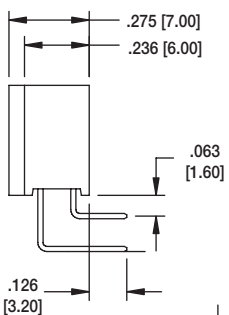
A = .100 [2.54] X No. of Positions + .300 [7.62]
B = .100 [2.54] X No. of Spaces

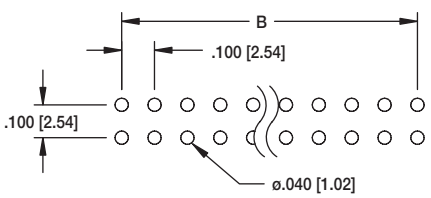
RSBR





RSBR-36-G





Recommended PCB Layout

A = .100 [2.54] x No. of Positions + .300 [7.62]
B = .100 [2.54] x No. of Spaces

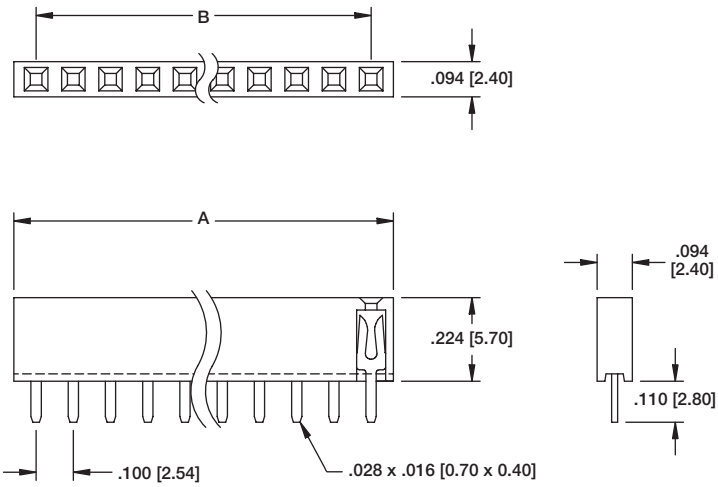
.100" RECEPTACLE STRIPS

.224" HEIGHT LOW PROFILE

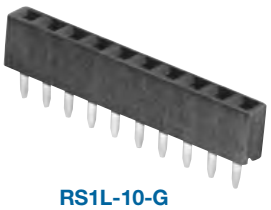
RS SERIES

RS1L

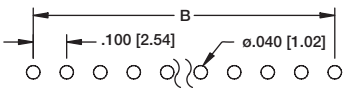
Ordering Information pg. 291



A = .100 [2.54] x No. of Positions
B = .100 [2.54] x No. of Spaces

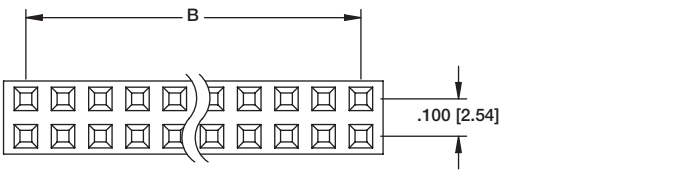


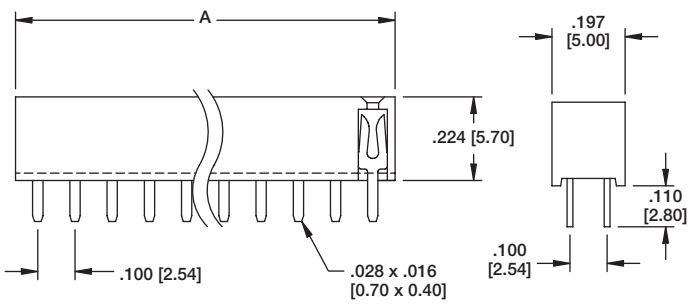
RS1L-10-G



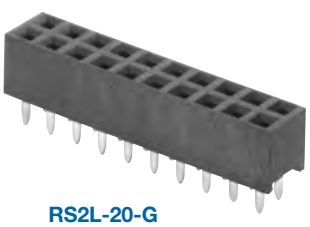
Recommended PCB Layout

RS2L

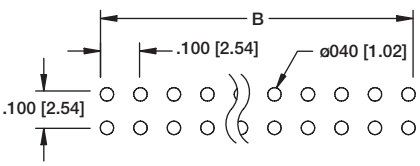




A = .100 [2.54] x No. of Positions per row
B = .100 [2.54] x No. of Spaces



RS2L-20-G



Recommended PCB Layout

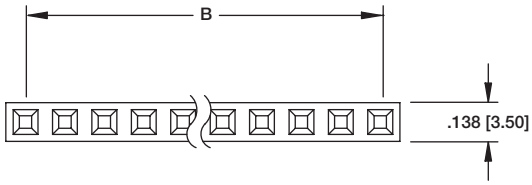
.100" RECEPTACLE STRIPS

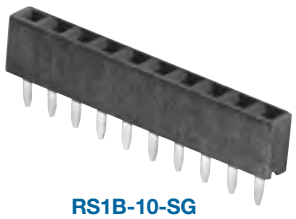
.260" HEIGHT FOUR SIDED CONTACT

RS SERIES

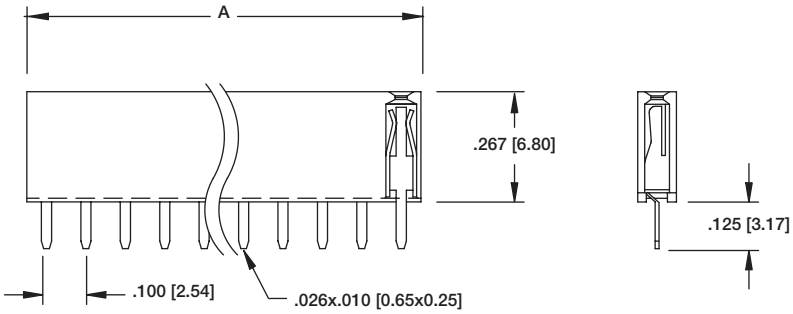
Ordering Information pg. 291

RS1B

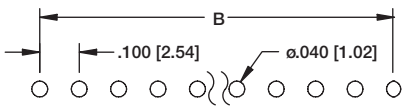




RS1B-10-SG

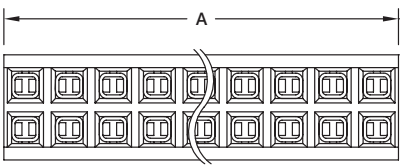


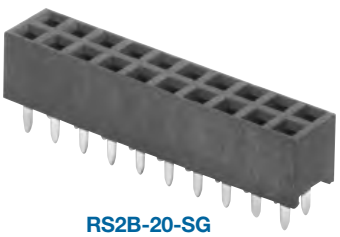
A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces



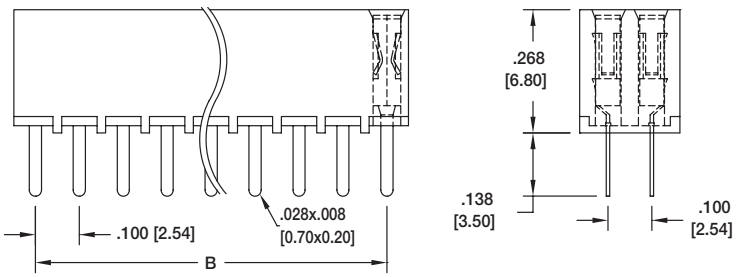
Recommended PCB Layout

RS2B

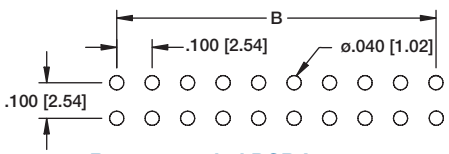




RS2B-20-SG



A = .100 [2.54] X No. of Positions per row
B = .100 [2.54] X No. of Spaces

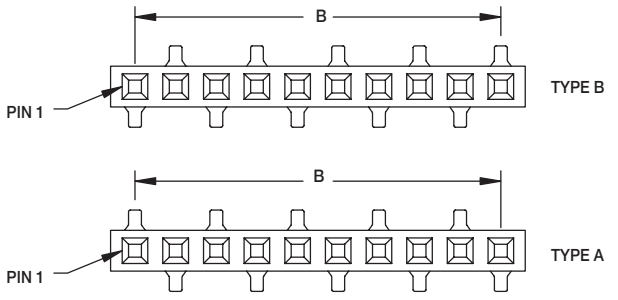


Recommended PCB Layout

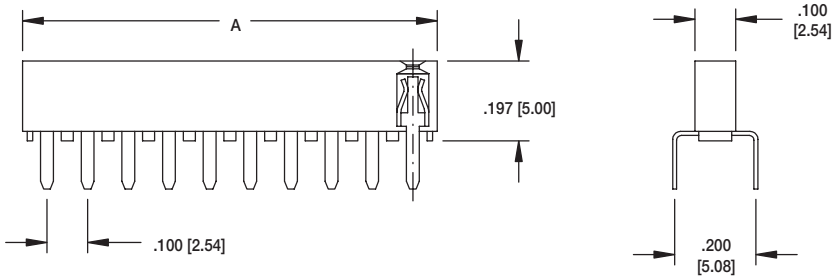
.100" RECEPTACLE STRIPS
BOTTOM, PASS THRU & DUAL ENTRY
RS SERIES

Ordering Information pg. 291

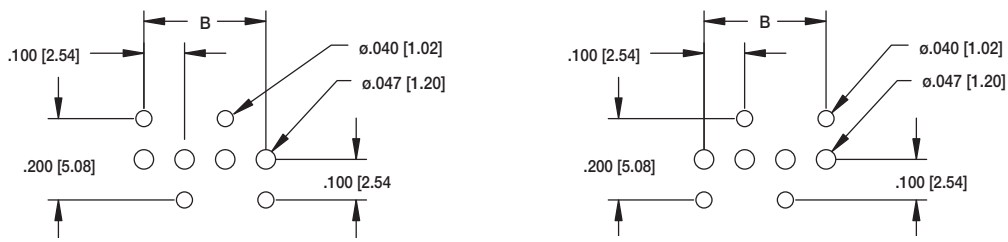
RS1BE-A/B



RS1BE-B-10-SG-A



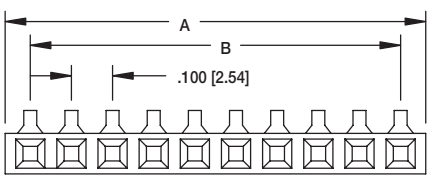
A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces



TYPE A TYPE B

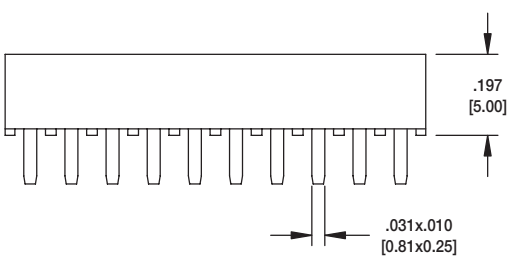
Recommended PCB Layouts

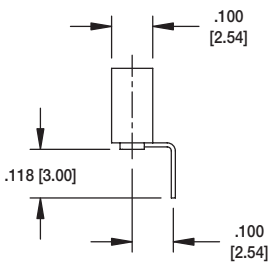
RS1BE

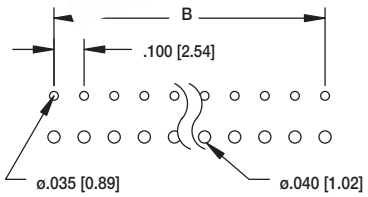


A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces

RS1BE-10-SG







Recommended PCB Layout

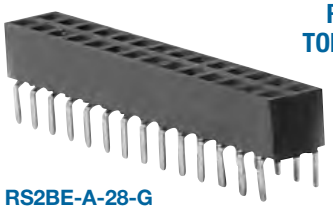
.100" RECEPTACLE STRIPS

TOP, BOTTOM & PASS THRU ENTRY

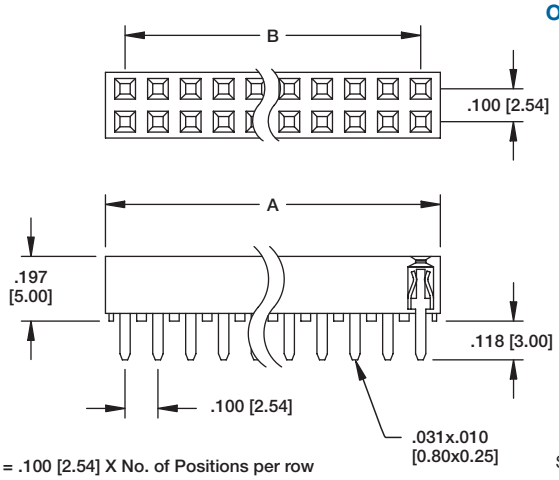
RS SERIES

Ordering Information pg. 291

RS2BE-A
TOP ENTRY

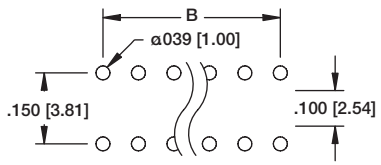


RS2BE-A-28-G



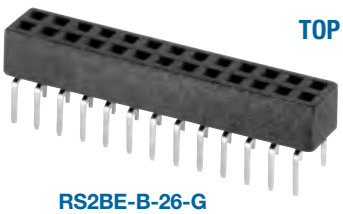
A = .100 [2.54] X No. of Positions per row
B = .100 [2.54] X No. of Spaces

SINGLE ROW CONFIGURATION
ALSO AVAILABLE

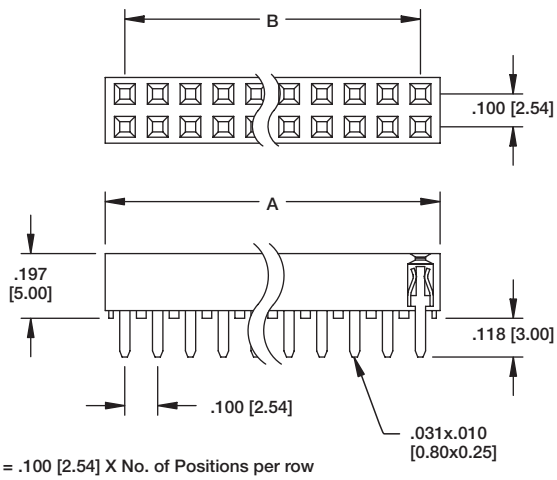


Recommended PCB Layout

RS2BE-B
TOP OR BOTTOM
ENTRY

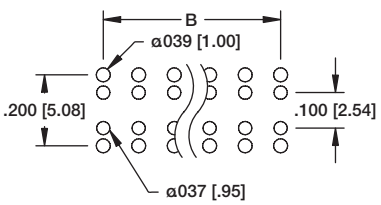


RS2BE-B-26-G



A = .100 [2.54] X No. of Positions per row
B = .100 [2.54] X No. of Spaces

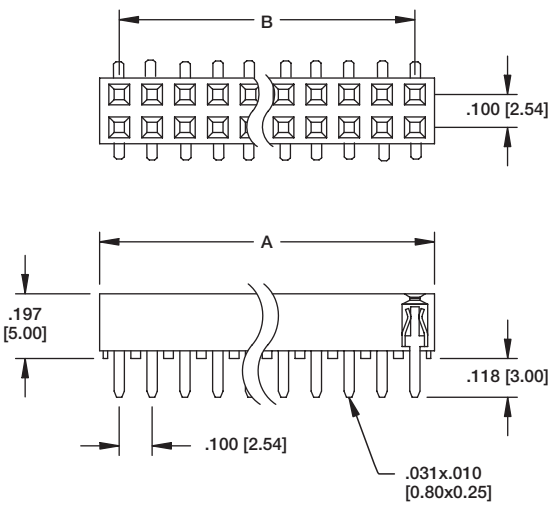
SINGLE ROW CONFIGURATION
ALSO AVAILABLE



Recommended PCB Layout

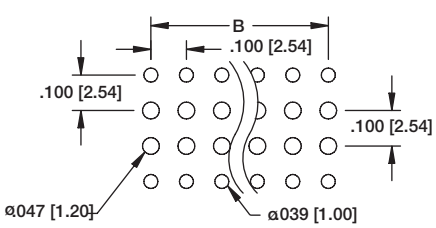
RS2BE-C
TOP OR
BOTTOM ENTRY

RS2BE-C-30-G



A = .100 [2.54] X No. of Positions per row
B = .100 [2.54] X No. of Spaces

SINGLE ROW CONFIGURATION
ALSO AVAILABLE

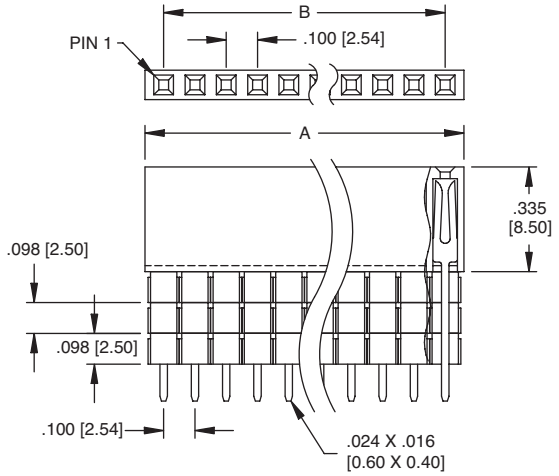


Recommended PCB Layout

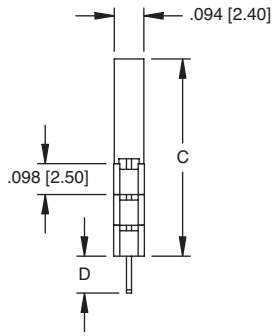
.100" RECEPTACLE STRIPS

ELEVATED SOCKETS .100" [2.54] CENTERLINE

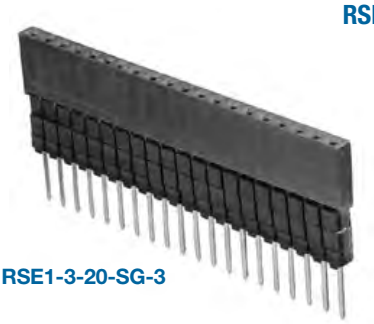
RS SERIES



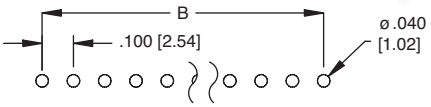
A = .100" [2.54] x No. of positions
B = .100" [2.54] x No. of spaces



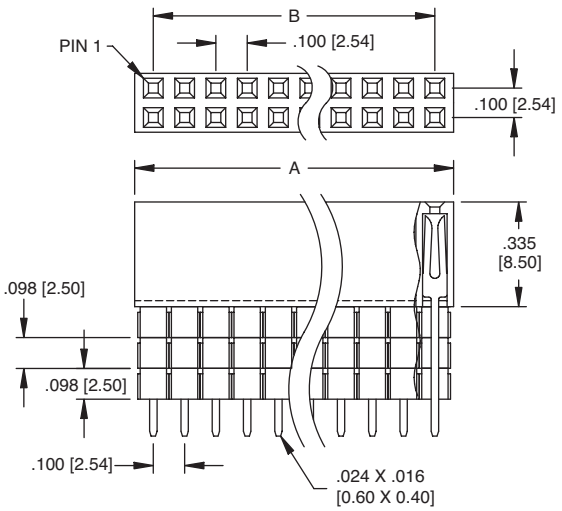
RSE1



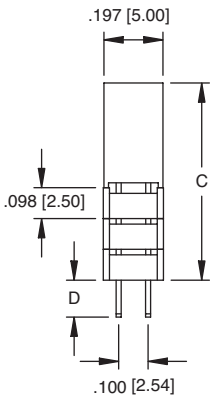
RSE1-3-20-SG-3



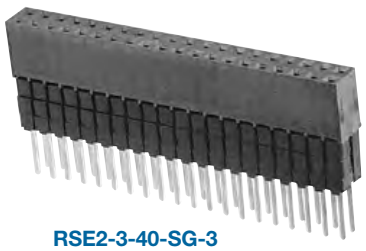
Recommended PCB Layout



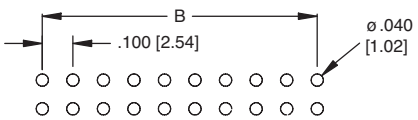
A = .100" [2.54] x No. of positions per row
B = .100" [2.54] x No. of spaces



RSE2



RSE2-3-40-SG-3



Recommended PCB Layout

ORDERING INFORMATION

RSE1	2	20	SG	1

SERIES INDICATOR
RSE1 = Single row, vertical elevated socket strip
RSE2 = Dual row, vertical elevated socket strip

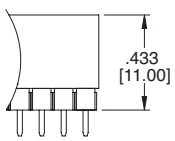
HEIGHT
1 = .433 [11.00]
2 = .531 [13.50]
3 = .630 [16.00]

POSITIONS
Single Row
01 thru 40
Dual Row
02 thru 80

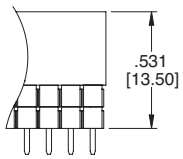
PLATING
SG = Selective Gold Plating in contact area, Tin Plated tails
T = Tin Plated

PIN LENGTH
Dim. D
See chart Dim.D

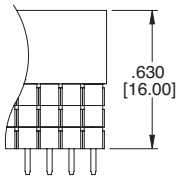
1 Insulator



2 Insulators



3 Insulators



PART NUMBER	INSULATORS	DIM. C	DIM. D
RSEX-1-XX-SG-1	1	.433 [11.00]	.118 [3.00]
RSEX-1-XX-SG-2	1	.433 [11.00]	.315 [8.00]
RSEX-1-XX-SG-3	1	.433 [11.00]	.448 [11.40]
RSEX-2-XX-SG-1	2	.531 [13.50]	.216 [5.50]
RSEX-3-XX-SG-1	3	.635 [16.12]	.118 [3.00]
RSEX-3-XX-SG-2	3	.635 [16.12]	.252 [6.40]

*Replace “X” with “1” for single row or “2” for double row.
*Replace “XX” with total number of positions.