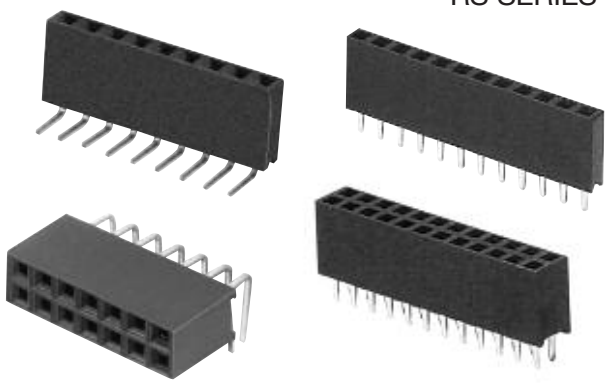
ADAM TECH
Adam Technologies, Inc.

.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 flash (30u" optional) over nickel underplate overall
SG = Gold flash (30u" optional) 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)

HI-TEMP INSULATOR AVAILABLE

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

Pb RoHS COMPLIANT

c UL us

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 309, 310 & 314

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 313

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
PAGE 307, 315 & 316

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 308

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: 2 Thru 36
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

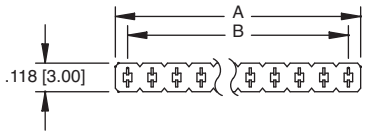
.100" RECEPTACLE STRIPS

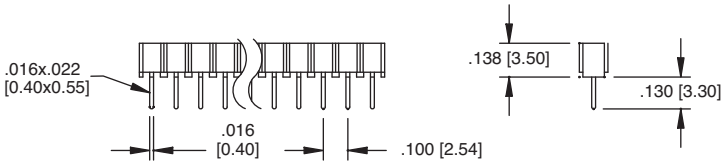
.138" & .205" HEIGHT SINGLE AND DUAL ROW

RS SERIES

Ordering Information pg. 307

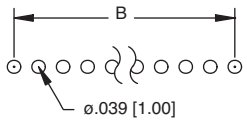
RSVL-1A





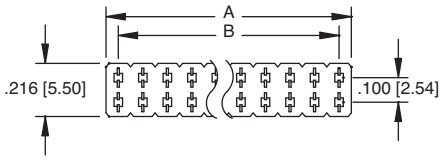
A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces

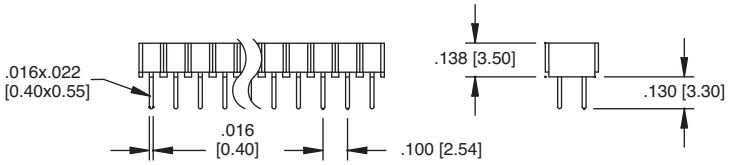
RSVL-1A-18-G



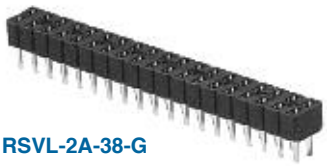
Recommended PCB Layout

RSVL-2A

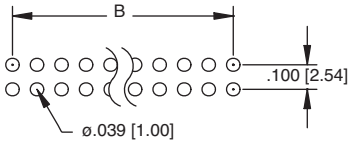




A = .100 [2.54] X No. of Positions Per Row
B = .100 [2.54] X No. of Spaces

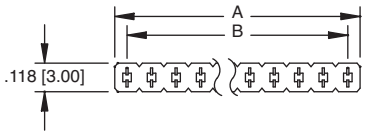


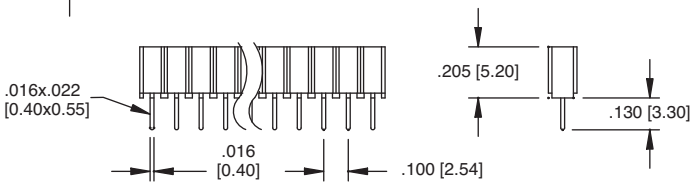
RSVL-2A-38-G



Recommended PCB Layout

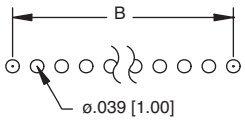
RSVL-1B





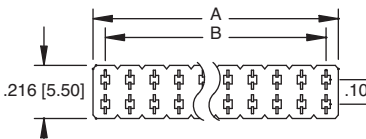
A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces

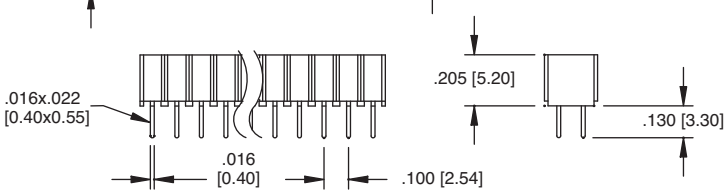
RSVL-1B-18-G



Recommended PCB Layout

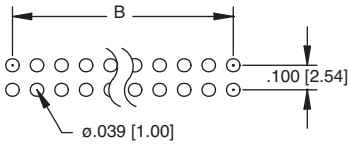
RSVL-2B





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

RSVL-2B-36-G



Recommended PCB Layout

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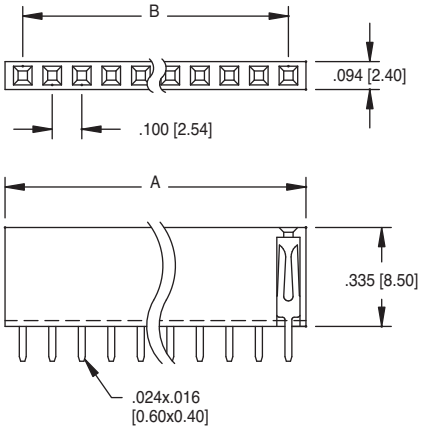
.100" RECEPTACLE STRIPS

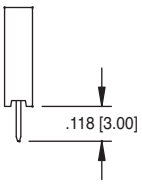
.335" HEIGHT, .100" [2.54] CENTERLINE

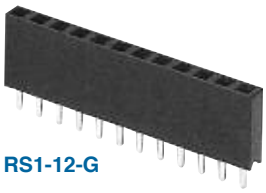
RS SERIES

Ordering Information pg. 306

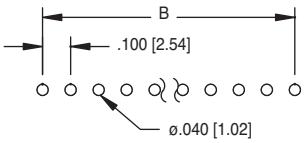
RS1







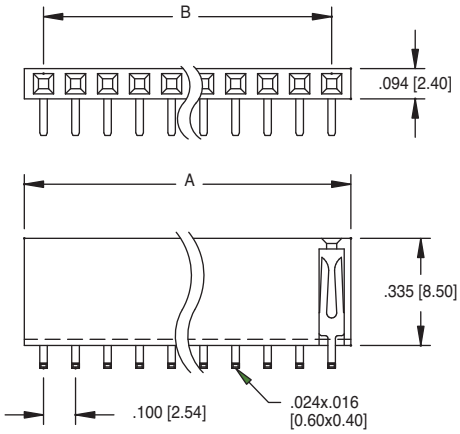
RS1-12-G

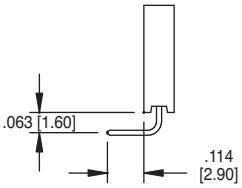


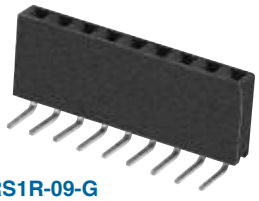
Recommended PCB Layout

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

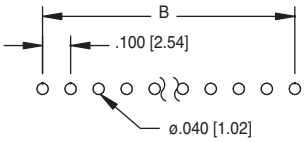
RS1R







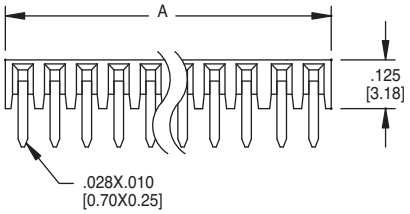
RS1R-09-G

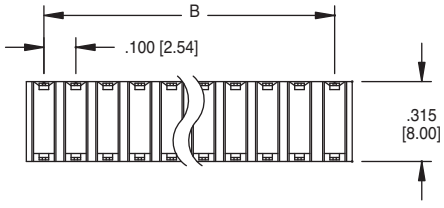


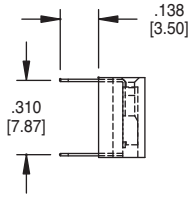
Recommended PCB Layout

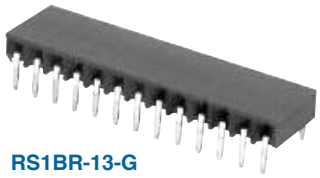
A = .100 [2.54] X No. of Positions +.020 [0.50]
B = .100 [2.54] X No. of Spaces

RS1BR

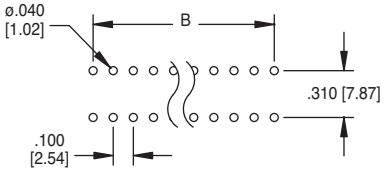








RS1BR-13-G



Recommended PCB Layout

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

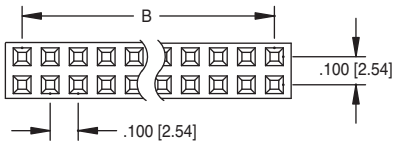
.100" RECEPTACLE STRIPS

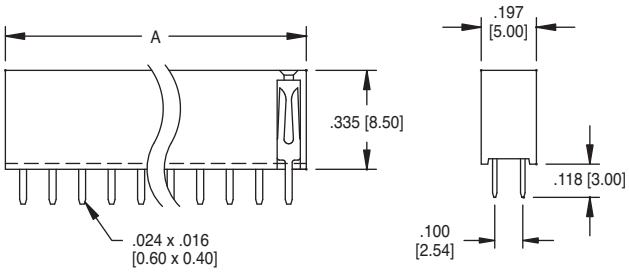
.335" HEIGHT, .100" [2.54] CENTERLINE

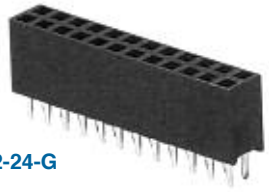
RS SERIES

Ordering Information pg. 306

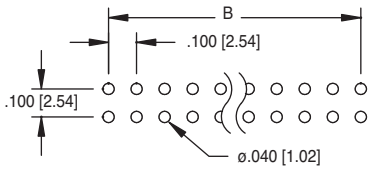
RS2







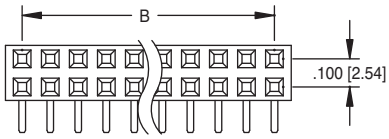
RS2-24-G

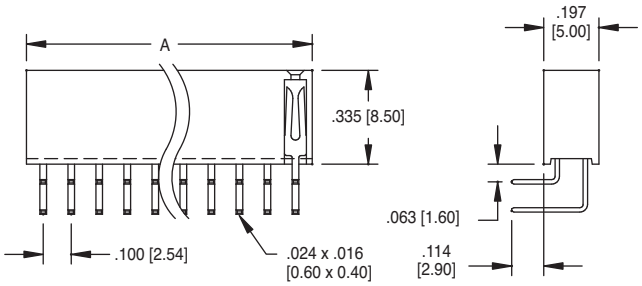


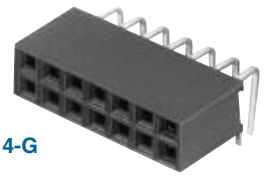
Recommended PCB Layout

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

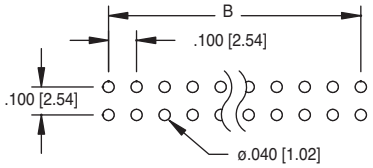
RS2R







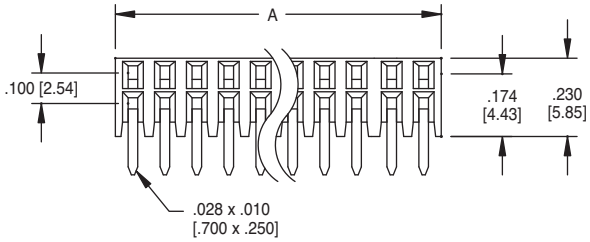
RS2R-14-G

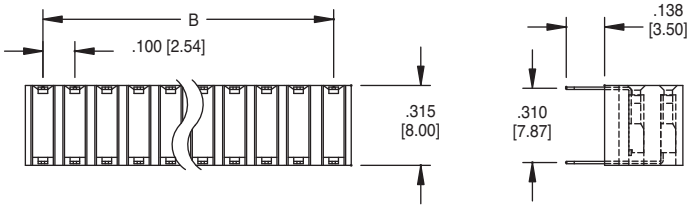


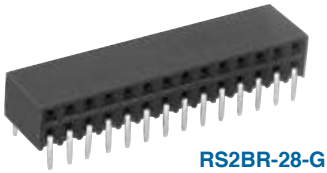
Recommended PCB Layout

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

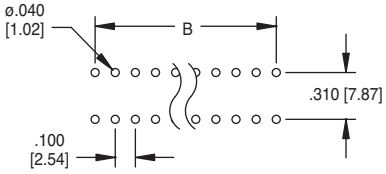
RS2BR







RS2BR-28-G



Recommended PCB Layout

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

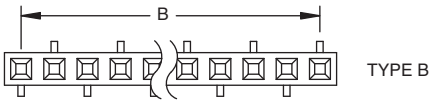
.100" RECEPTACLE STRIPS

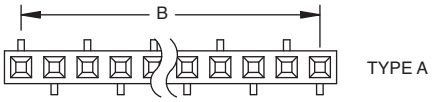
SMT .283" HEIGHT, .100" [2.54] CENTERLINE

RS SERIES

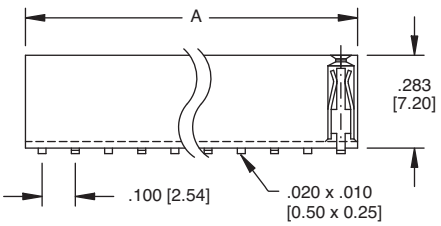
Ordering Information pg. 306

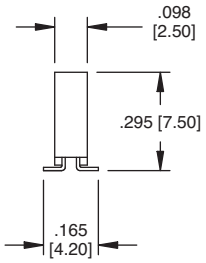
RSM1



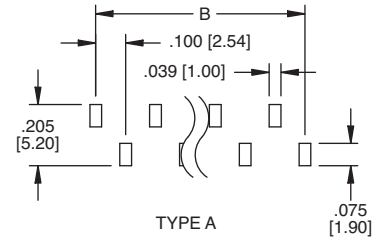


RSM1-10-SG-SMT-A

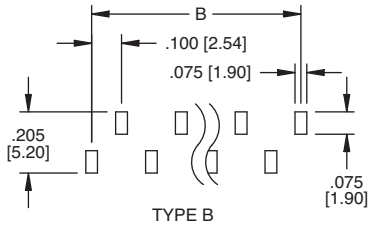




A = .100 [2.54] x No. of Positions
B = .100 [2.54] x No. of Spaces

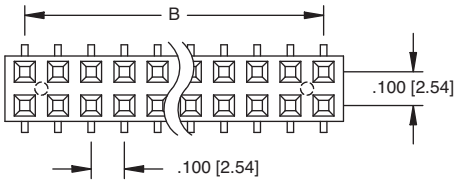


Recommended PCB Layout

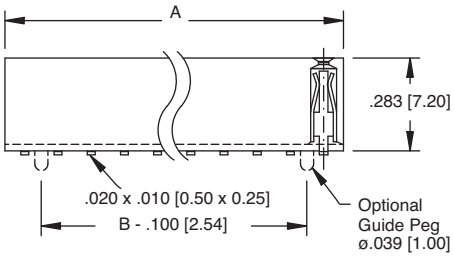


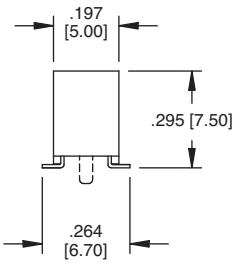
Recommended PCB Layout

RSM2

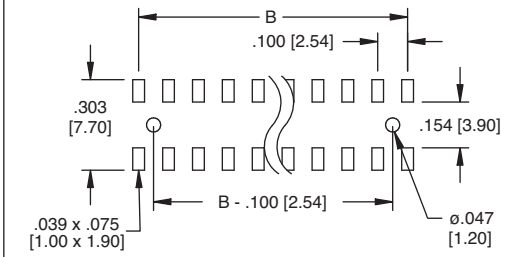


RSM2-20-SG-SMT





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



Recommended PCB Layout

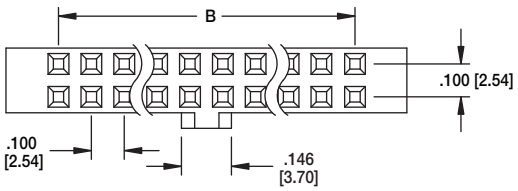
.100" RECEPTACLE STRIPS

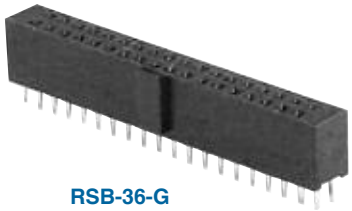
.335" HEIGHT WITH POLARIZING BUMP

RS SERIES

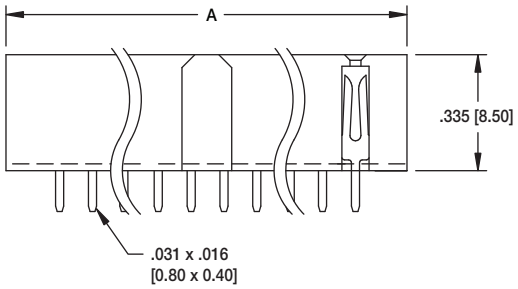
RSB

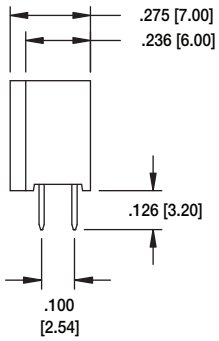
Ordering Information pg. 306

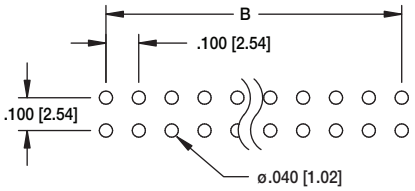




RSB-36-G



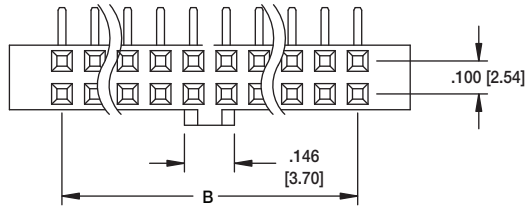


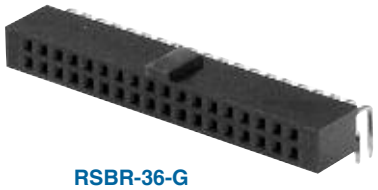


Recommended PCB Layout

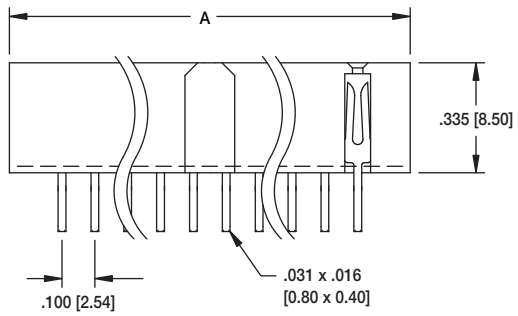
A = .100 [2.54] X No. of Positions + .300 [7.62]
B = .100 [2.54] X No. of Spaces

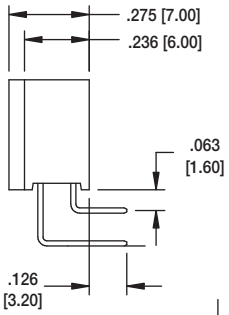
RSBR

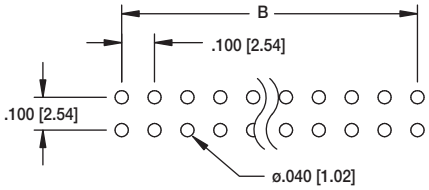




RSBR-36-G







Recommended PCB Layout

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

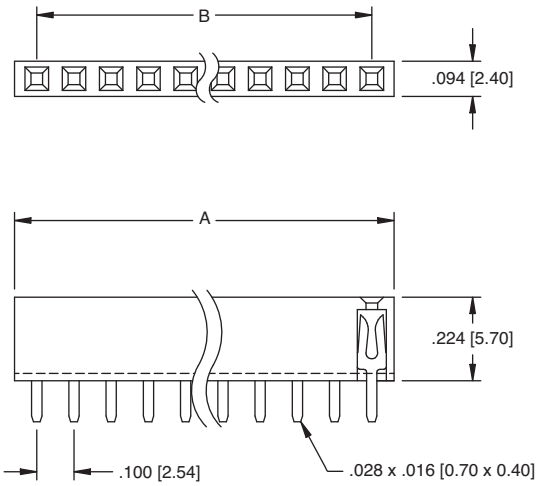
.100" RECEPTACLE STRIPS

.224" HEIGHT LOW PROFILE

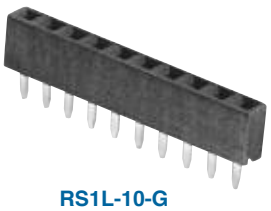
RS SERIES

RS1L

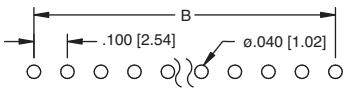
Ordering Information pg. 307



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

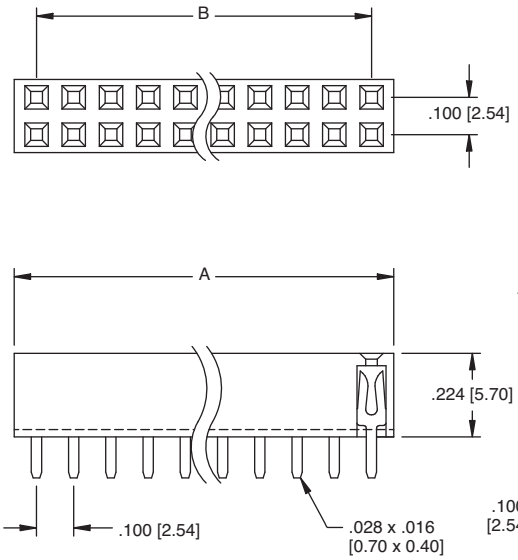


RS1L-10-G

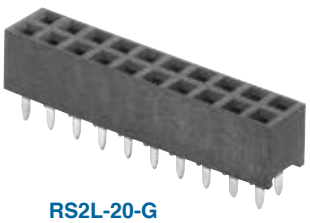


Recommended PCB Layout

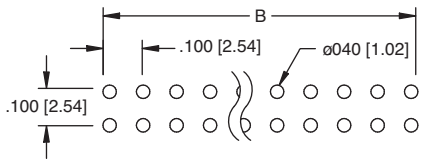
RS2L



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



RS2L-20-G



Recommended PCB Layout

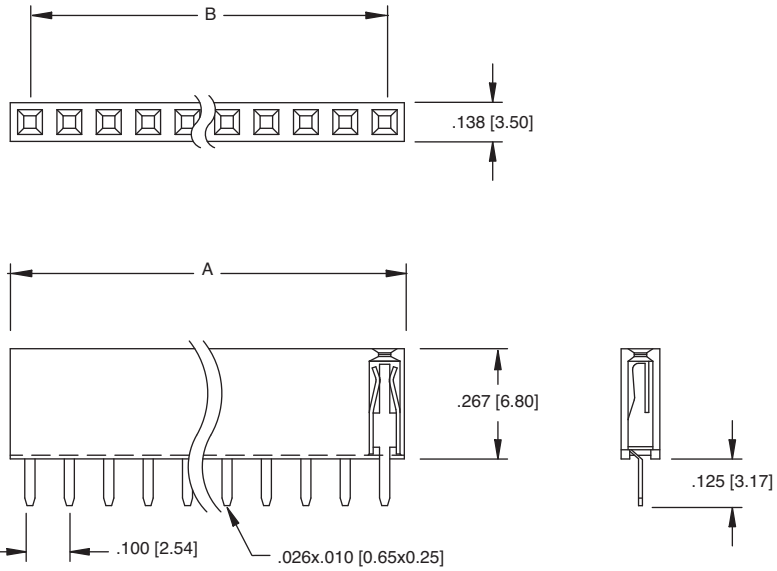
.100" RECEPTACLE STRIPS

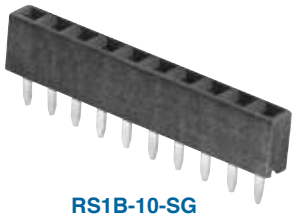
.260" HEIGHT FOUR SIDED CONTACT

RS SERIES

Ordering Information pg. 307

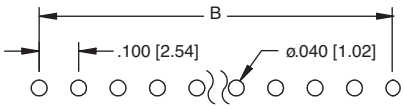
RS1B





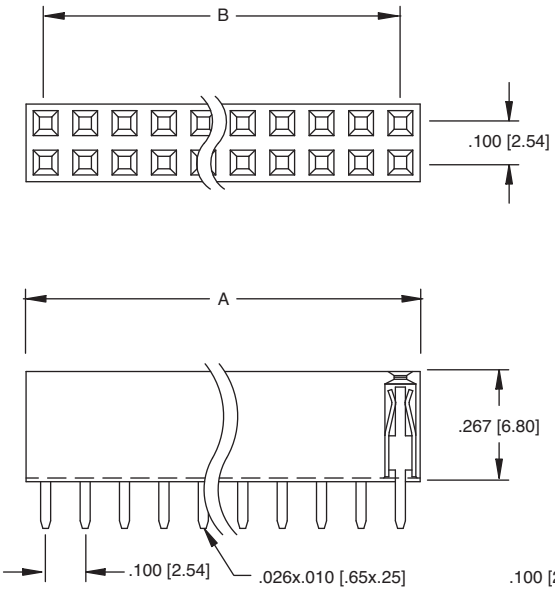
RS1B-10-SG

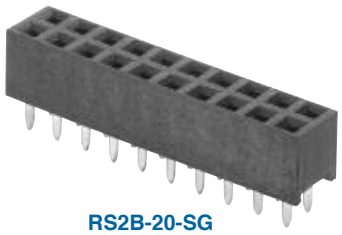
A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces



Recommended PCB Layout

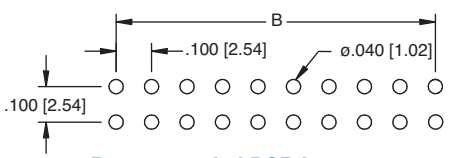
RS2B





RS2B-20-SG

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



Recommended PCB Layout

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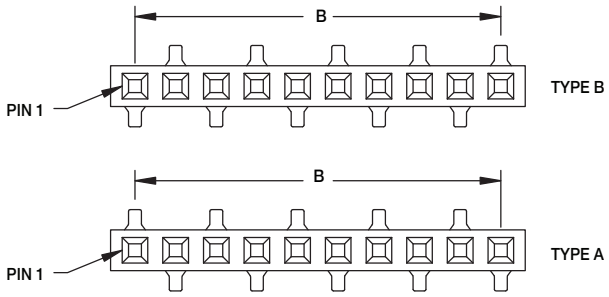
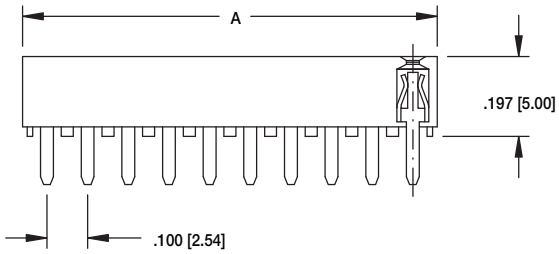
.100" RECEPTACLE STRIPS
BOTTOM, PASS THRU & DUAL ENTRY
RS SERIES

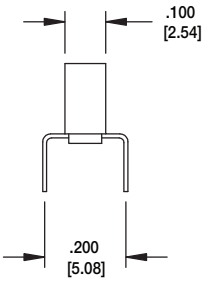
Ordering Information pg. 307

RS1BE-A/B

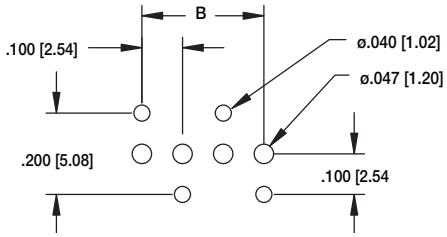


RS1BE-B-10-SG-A

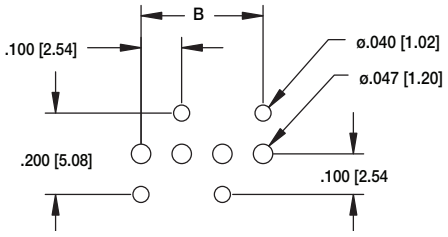




A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces



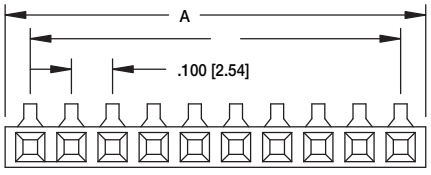
TYPE A



TYPE B

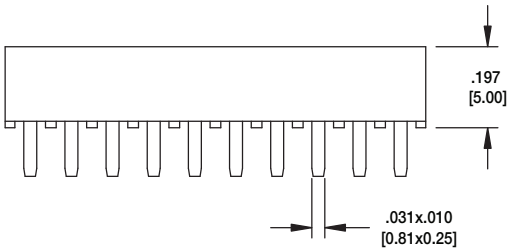
Recommended PCB Layouts

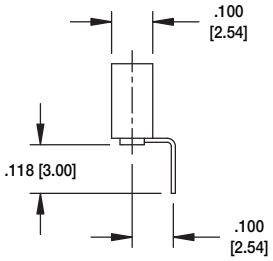
RS1BE

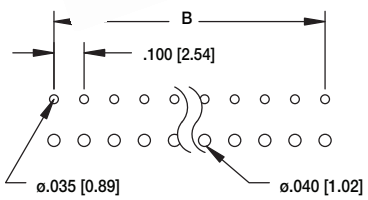


A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces

RS1BE-10-SG







Recommended PCB Layout

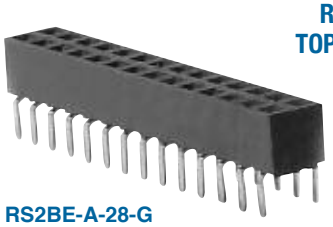
.100" RECEPTACLE STRIPS

TOP, BOTTOM & PASS THRU ENTRY

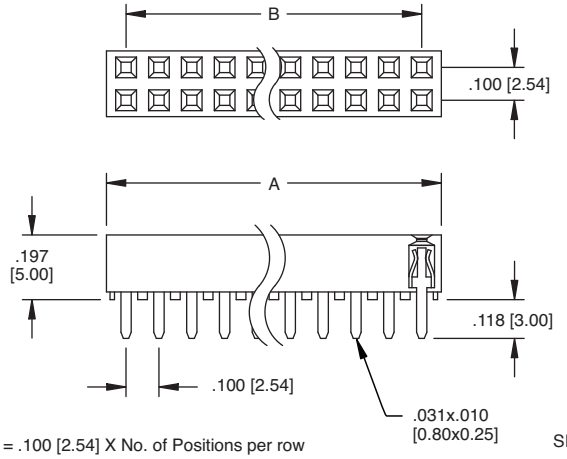
RS SERIES

Ordering Information pg. 307

RS2BE-A TOP ENTRY

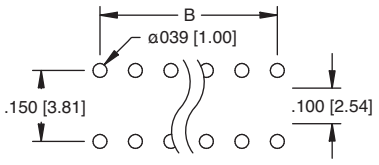


RS2BE-A-28-G



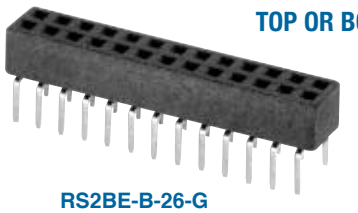
A = .100 [2.54] X No. of Positions per row
B = .100 [2.54] X No. of Spaces

SINGLE ROW CONFIGURATION ALSO AVAILABLE

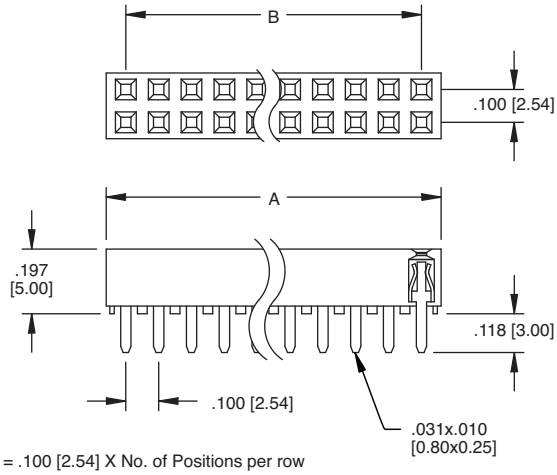


Recommended PCB Layout

RS2BE-B TOP OR BOTTOM ENTRY

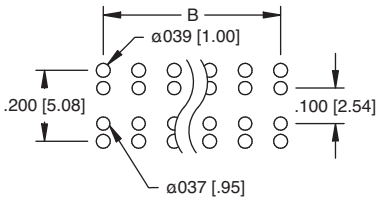


RS2BE-B-26-G



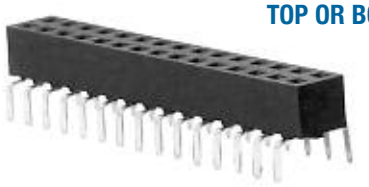
A = .100 [2.54] X No. of Positions per row
B = .100 [2.54] X No. of Spaces

SINGLE ROW CONFIGURATION ALSO AVAILABLE

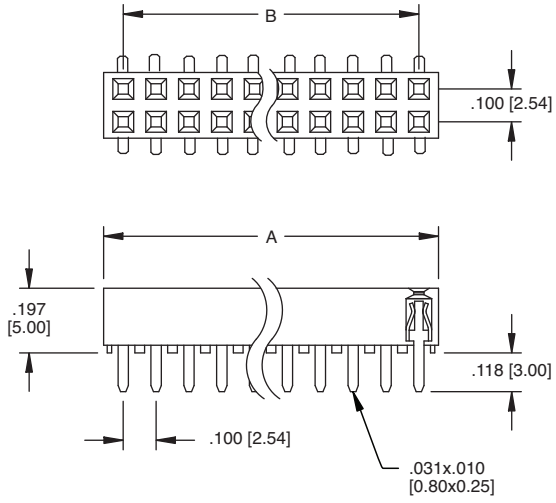


Recommended PCB Layout

RS2BE-C TOP OR BOTTOM ENTRY

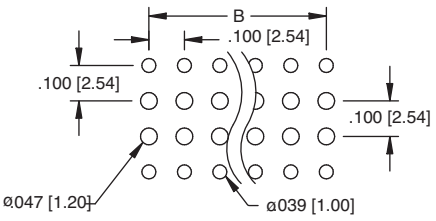


RS2BE-C-30-G



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

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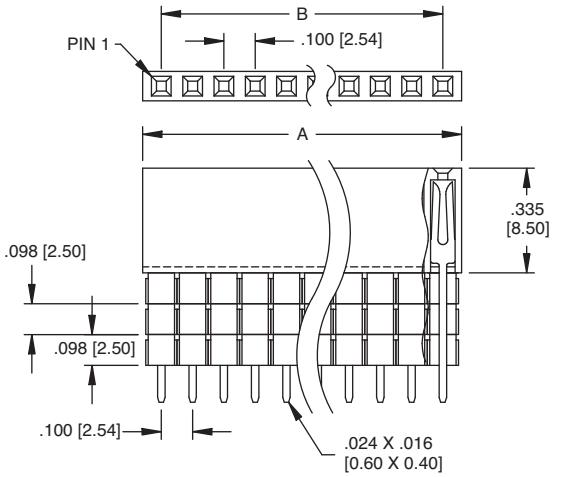
.100" RECEPTACLE STRIPS

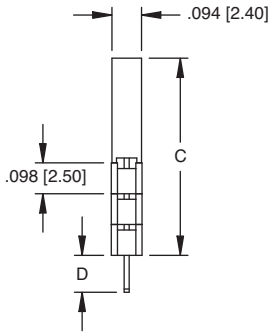
ELEVATED SOCKETS .100" [2.54] CENTERLINE

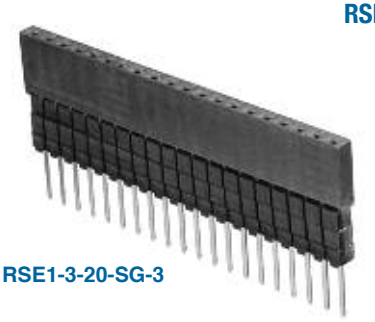
RS SERIES

RSE1

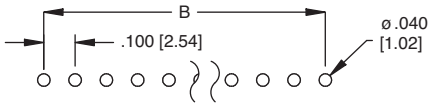


A = .100" [2.54] x No. of positions
B = .100" [2.54] x No. of spaces



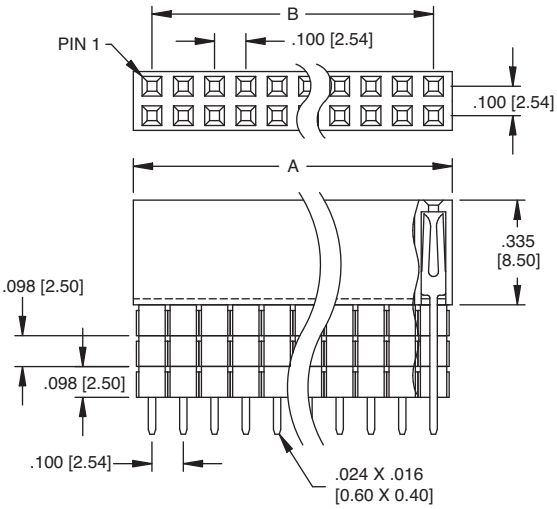


RSE1-3-20-SG-3

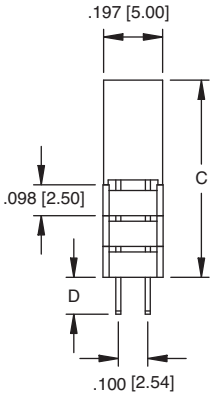


Recommended PCB Layout

RSE2



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



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

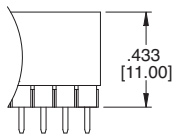
HEIGHT
1 = .433 [11.00]
2 = .531 [13.50]
3 = .630 [16.00]

POSITIONS
Single Row
01 thru 40
Dual Row
02 thru 80

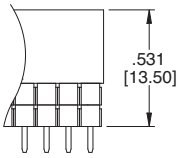
PLATING
SG = Selective Gold Plating in contact area, Tin Plated tails
T = Tin Plated

PIN LENGTH
Dim. D
See chart Dim.D

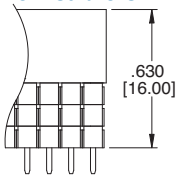
1 Insulator



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.