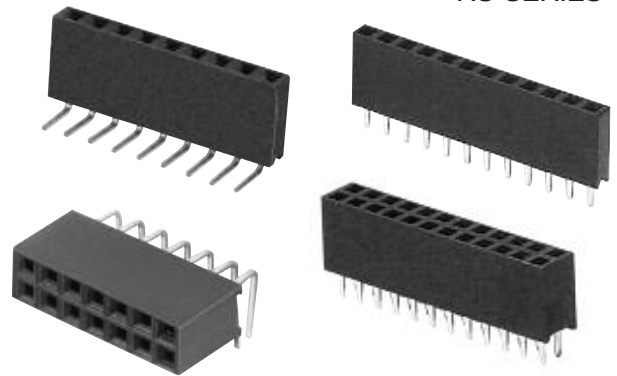




INTRODUCTION:

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 reinforced, 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)

SAFETY AGENCY APPROVALS:

UL Recognized & CSA Certified,
File no. E224053

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 receptacle
RSE2 = Dual row elevated receptacle
RSM1 = Single row surface mount
RSM2 = Dual row surface mount

PLATING

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

POSITIONS

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

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

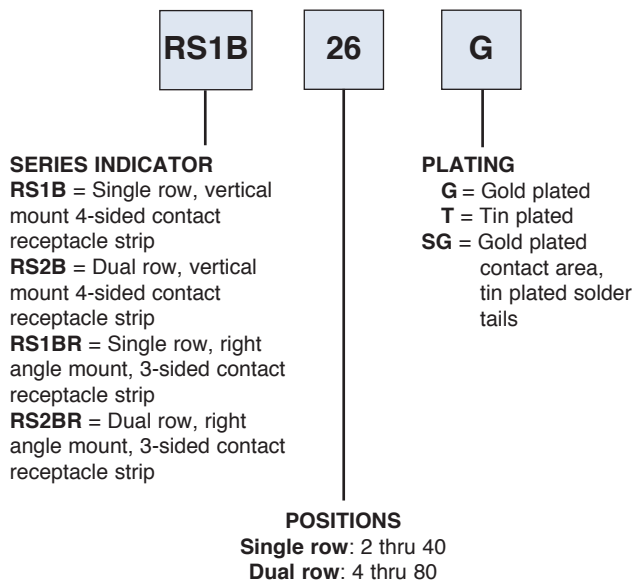
SMT-B = SMT Single Row Type B with Hi-Temp insulator

30 = 30 μin gold plating in contact area

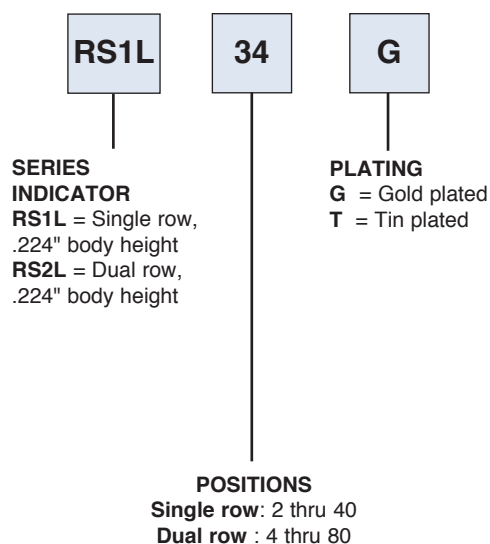
P = Optional guide peg on SMT version

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)

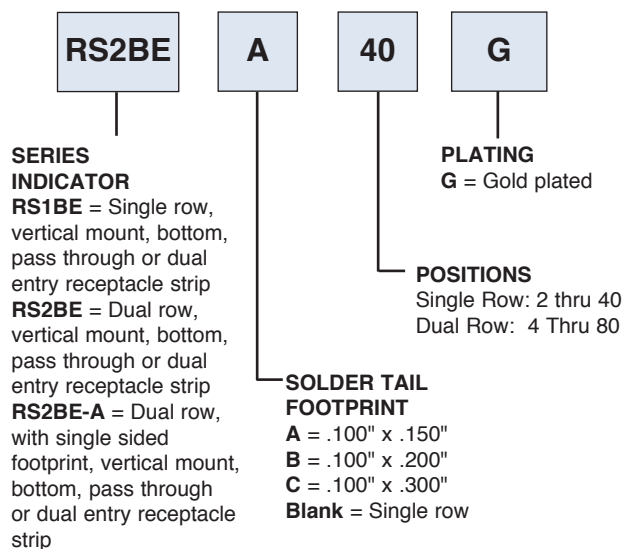
RECEPTACLE STRIPS FOUR SIDED CONTACT PAGE 309, 310 & 314



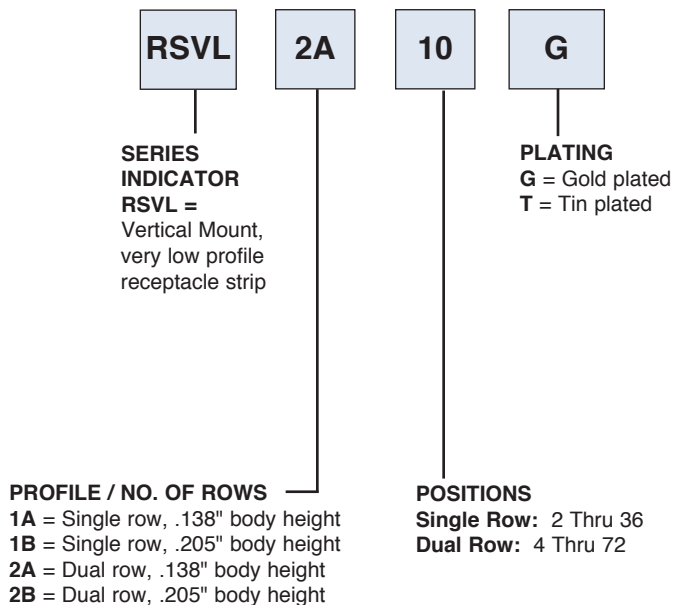
RECEPTACLE STRIPS LOW PROFILE PAGE 313



RECEPTACLE STRIPS BOTTOM, PASS THROUGH OR DUAL ENTRY PAGE 307, 315 & 316



RECEPTACLE STRIPS VERY LOW PROFILE PAGE 308



OPTIONS:

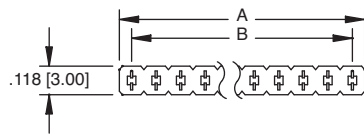
Add designator(s) to end of part number

A = Type A PCB Layout

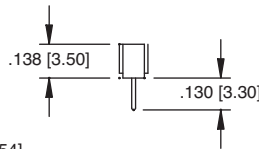
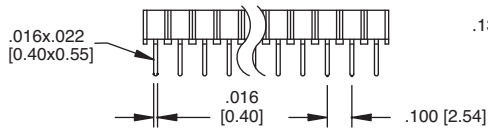
B = Type B PCB Layout

Ordering Information pg. 307

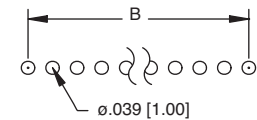
RSVL-1A



RSVL-1A-18-G

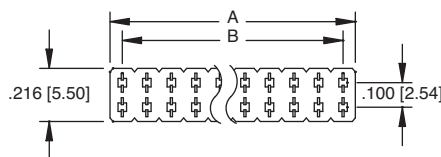


A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces

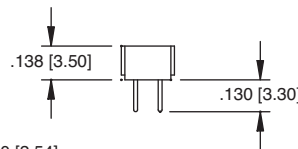
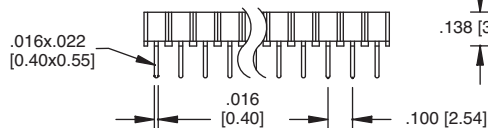


Recommended PCB Layout

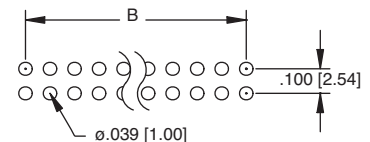
RSVL-2A



RSVL-2A-38-G

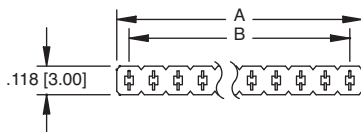


A = .100 [2.54] X No. of Positions Per Row
B = .100 [2.54] X No. of Spaces

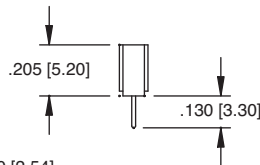
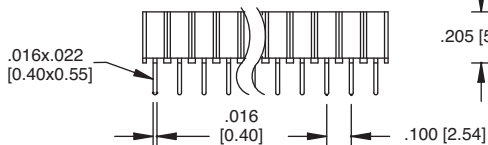


Recommended PCB Layout

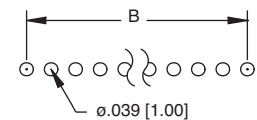
RSVL-1B



RSVL-1B-18-G

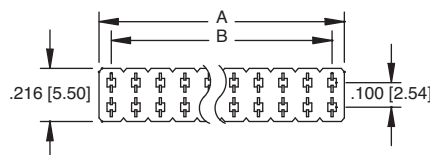


A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces

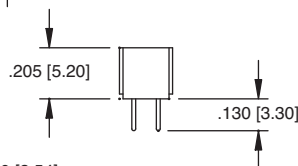
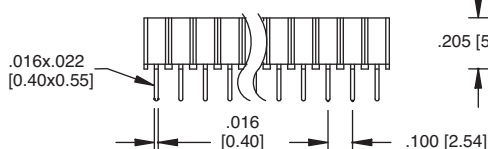


Recommended PCB Layout

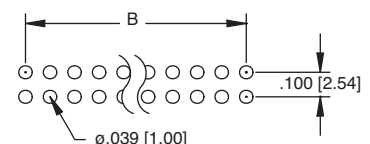
RSVL-2B



RSVL-2B-36-G



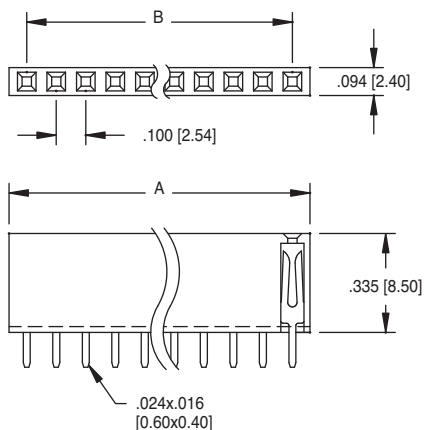
A = .100 [2.54] X No. of Positions Per Row
B = .100 [2.54] X No. of Spaces



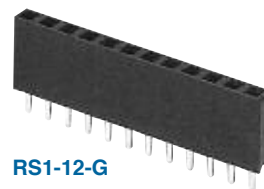
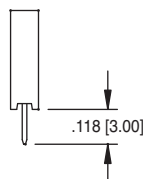
Recommended PCB Layout

Ordering Information pg. 306

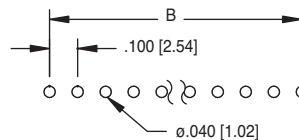
RS1



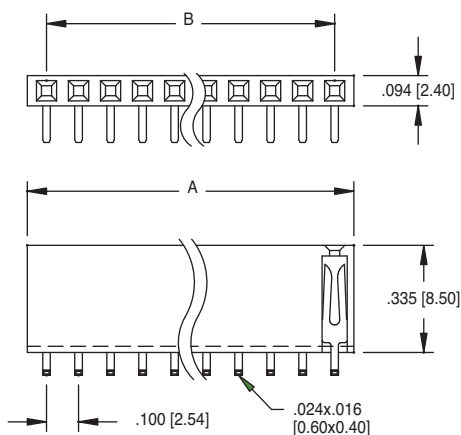
A = .100 [2.54] X No. of Positions + .020 [0.50]
B = .100 [2.54] X No. of Spaces



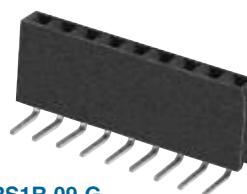
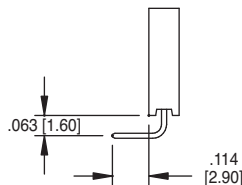
RS1-12-G



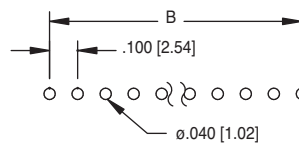
Recommended PCB Layout



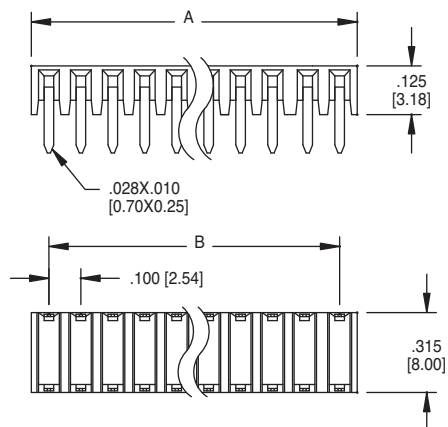
A = .100 [2.54] X No. of Positions + .020 [0.50]
B = .100 [2.54] X No. of Spaces



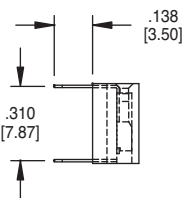
RS1R-09-G



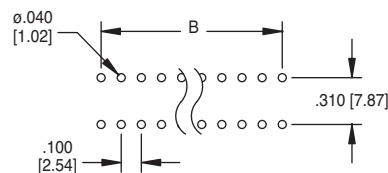
Recommended PCB Layout



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



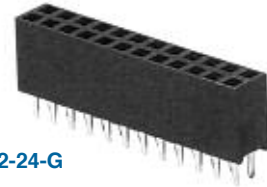
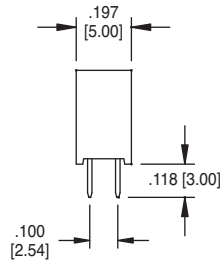
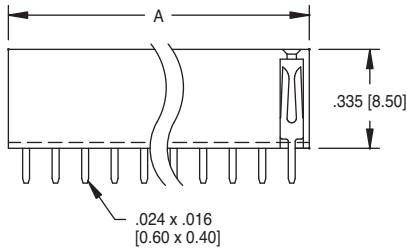
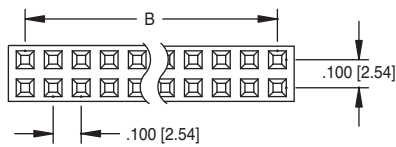
RS1BR-13-G



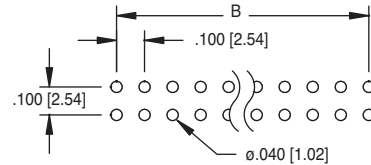
Recommended PCB Layout

Ordering Information pg. 306

RS2



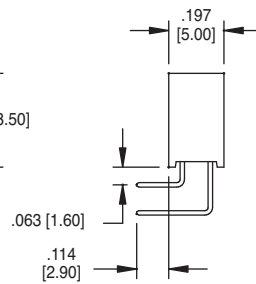
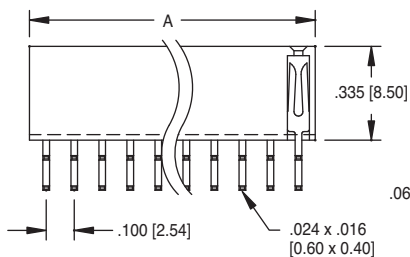
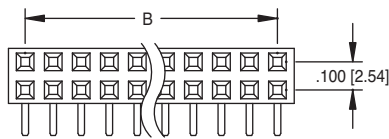
RS2-24-G



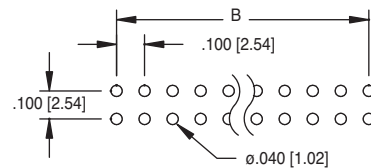
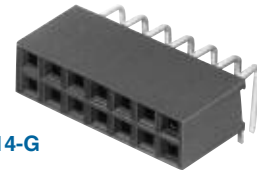
Recommended PCB Layout

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

RS2R



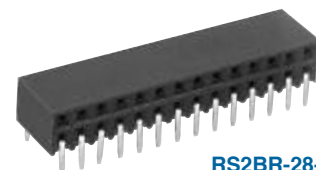
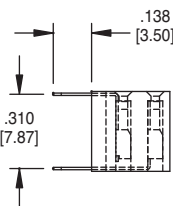
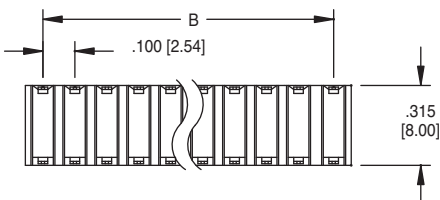
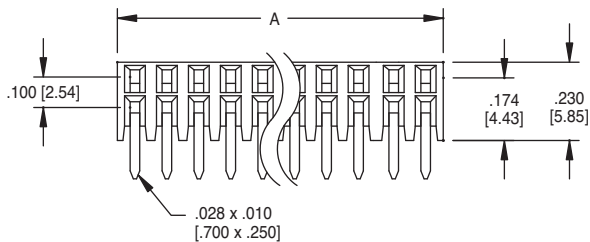
RS2R-14-G



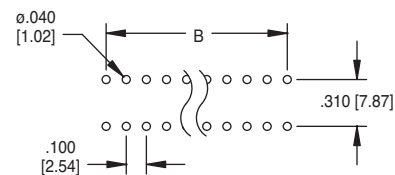
Recommended PCB Layout

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

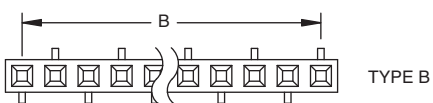


Recommended PCB Layout

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

Ordering Information pg. 306

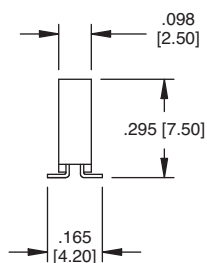
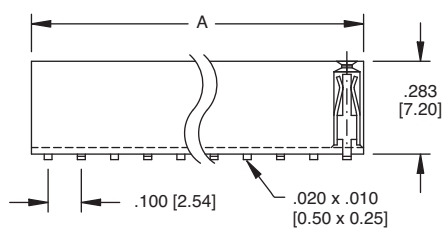
RSM1



TYPE B

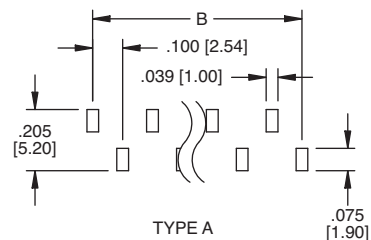


TYPE A



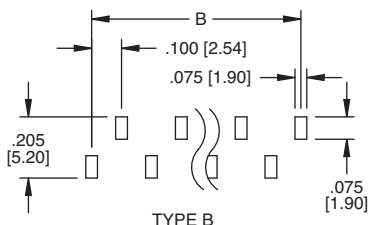
RSM1-10-SG-SMT-A

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



TYPE A

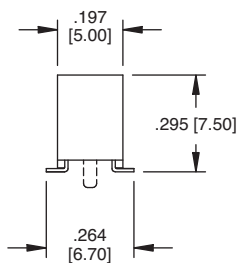
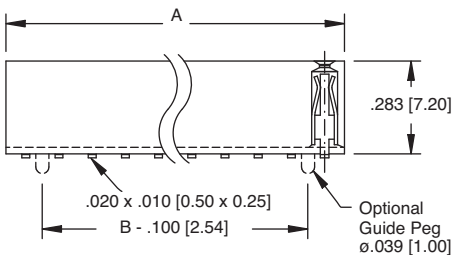
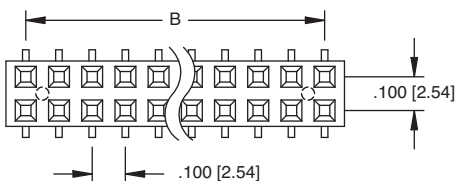
Recommended PCB Layout



TYPE B

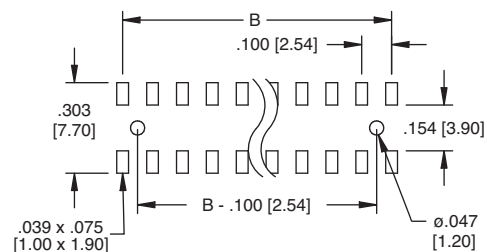
Recommended PCB Layout

RSM2



RSM2-20-SG-SMT

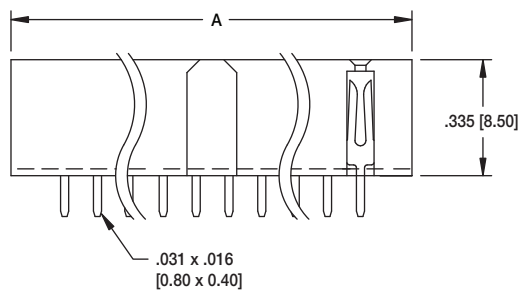
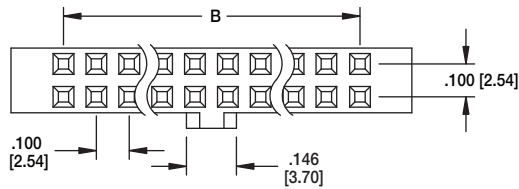
A = .100 [2.54] x No. of Positions per row
B = .100 [2.54] x No. of Spaces



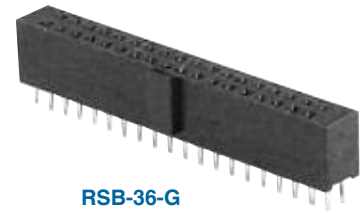
Recommended PCB Layout

Ordering Information pg. 306

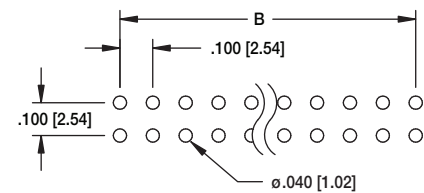
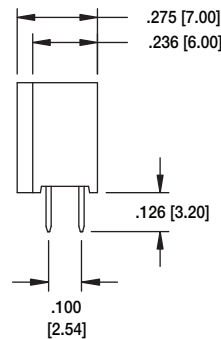
RSB



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

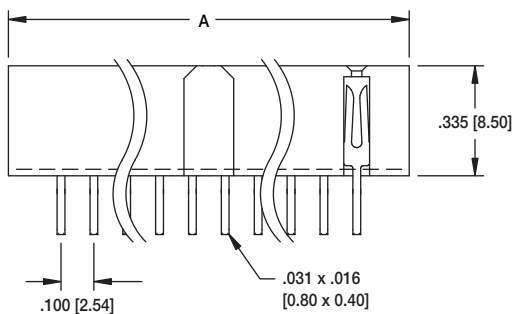
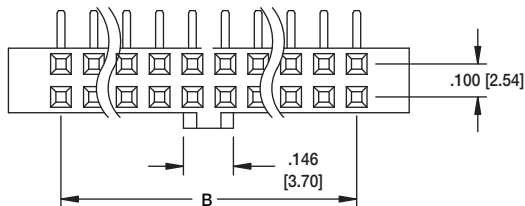


RSB-36-G



Recommended PCB Layout

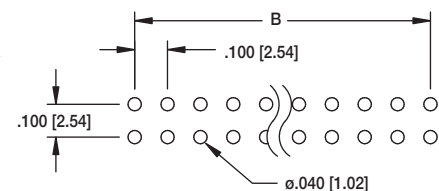
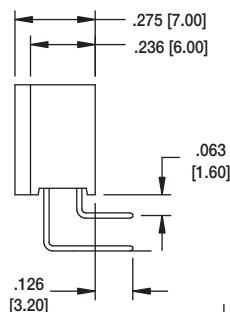
RSBR



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



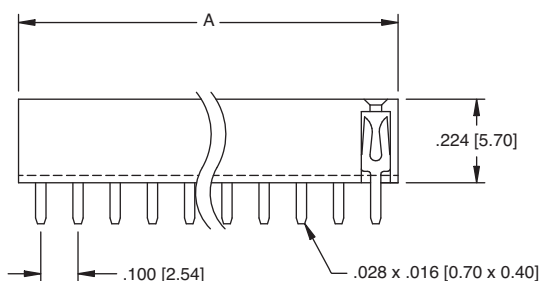
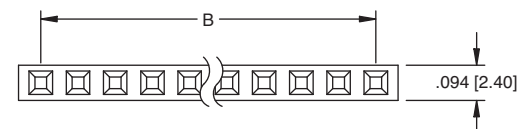
RSBR-36-G



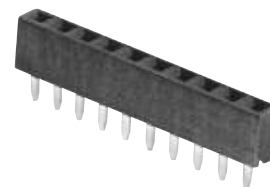
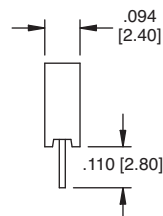
Recommended PCB Layout

RS1L

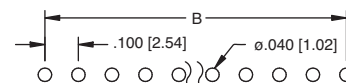
Ordering Information pg. 307



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

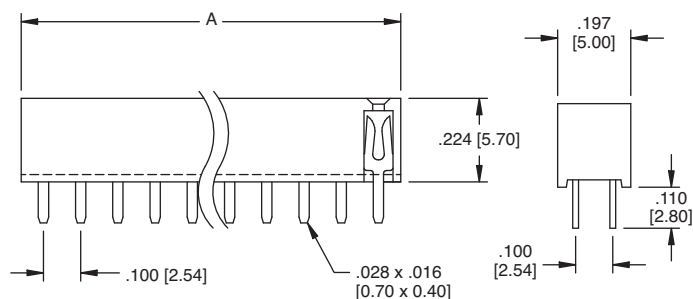
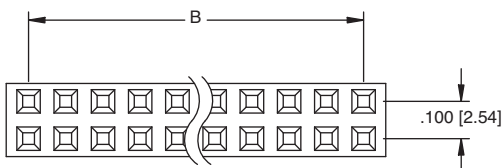


RS1L-10-G

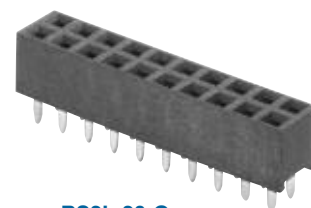
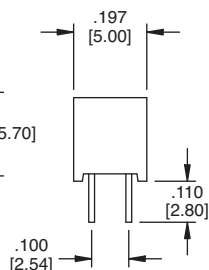


Recommended PCB Layout

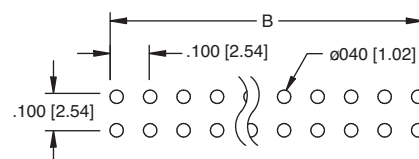
RS2L



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



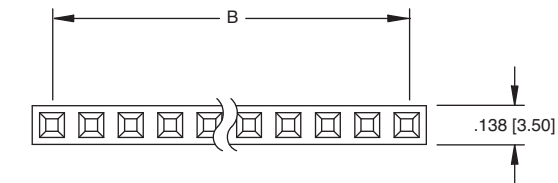
RS2L-20-G



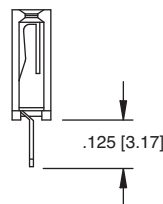
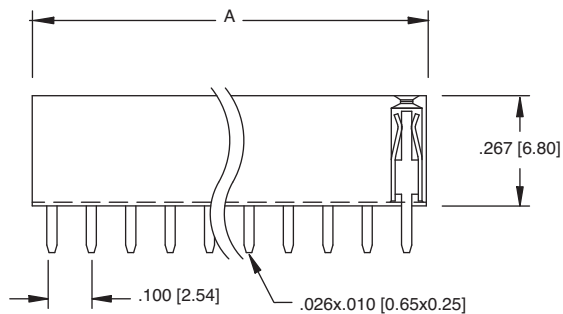
Recommended PCB Layout

Ordering Information pg. 307

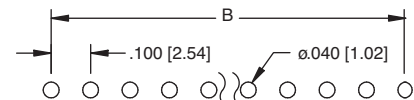
RS1B



RS1B-10-SG

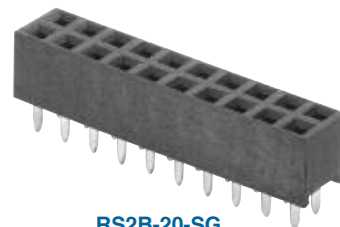
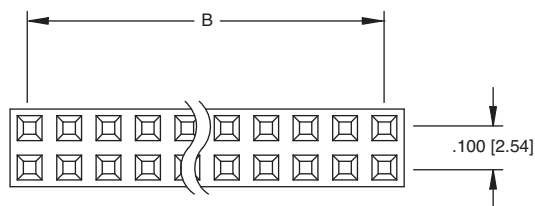


A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces

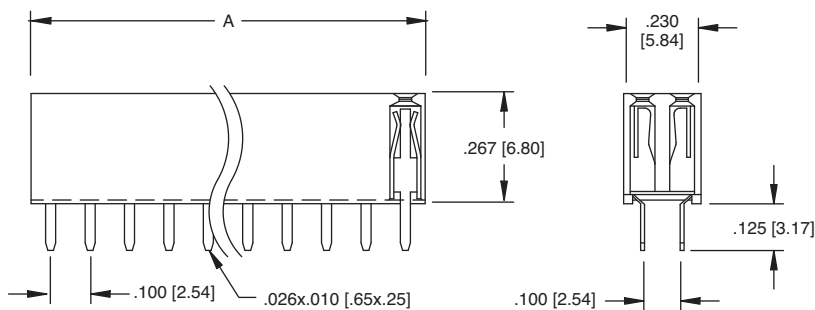


Recommended PCB Layout

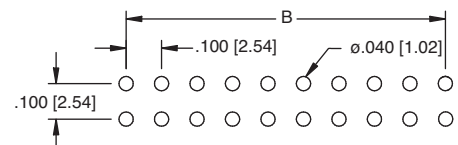
RS2B



RS2B-20-SG



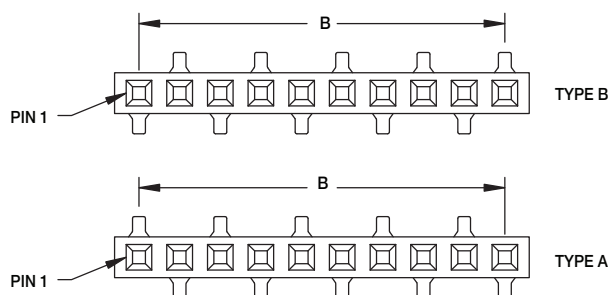
A = .100 [2.54] X No. of Positions per row
B = .100 [2.54] X No. of Spaces



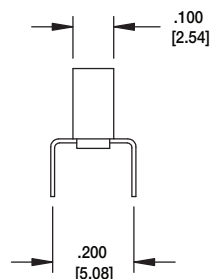
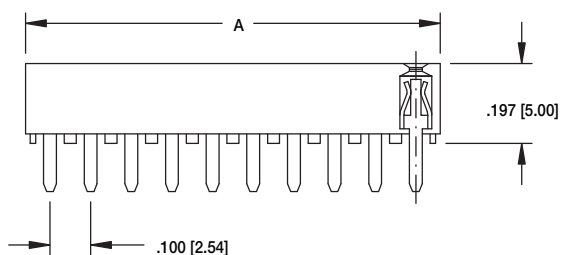
Recommended PCB Layout

Ordering Information pg. 307

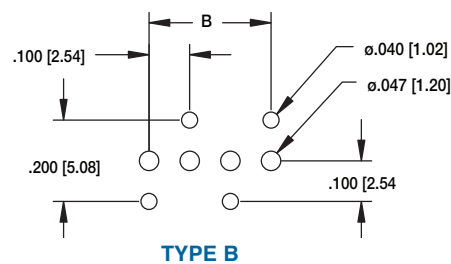
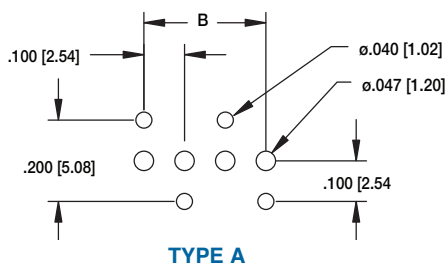
RS1BE-A/B



RS1BE-B-10-SG-A

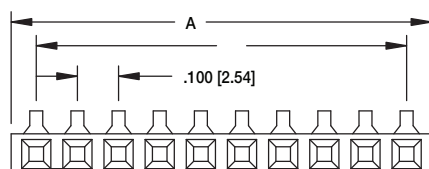


A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces



Recommended PCB Layouts

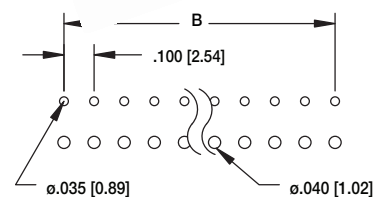
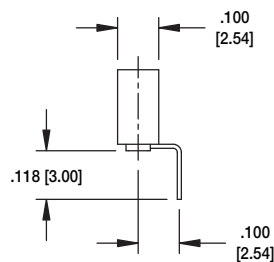
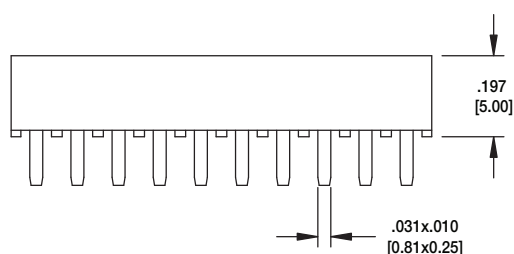
RS1BE



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



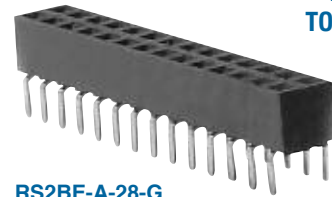
RS1BE-10-SG



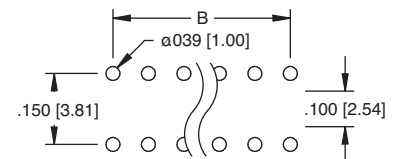
Recommended PCB Layout

Ordering Information pg. 307

**RS2BE-A
TOP ENTRY**

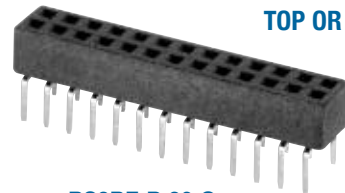


RS2BE-A-28-G

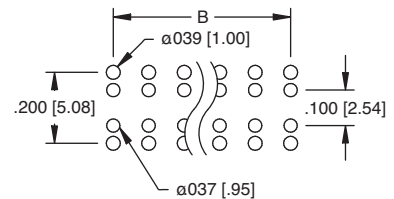


Recommended PCB Layout

**RS2BE-B
TOP OR BOTTOM
ENTRY**



RS2BE-B-26-G

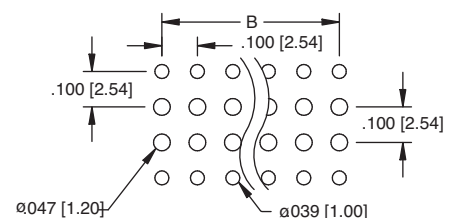


Recommended PCB Layout

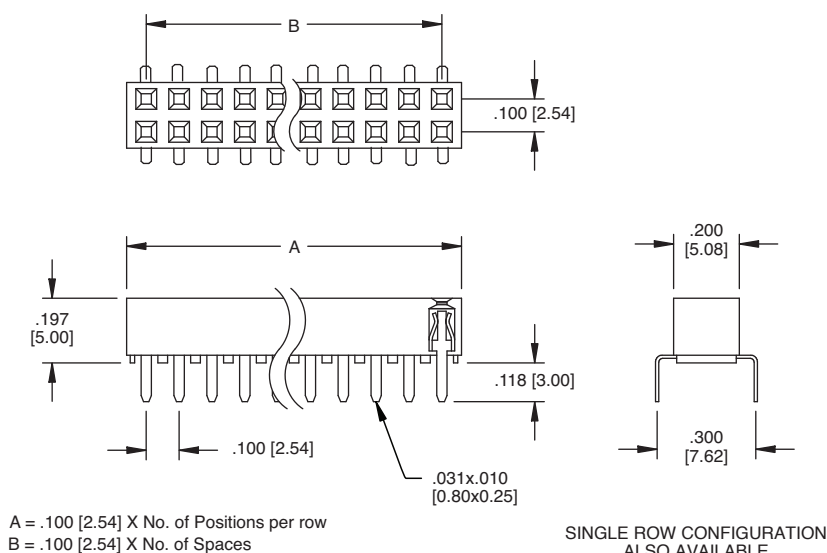
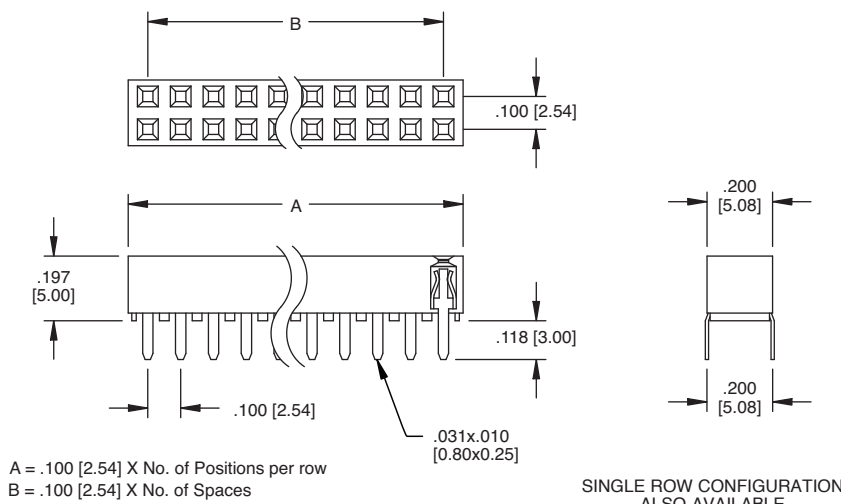
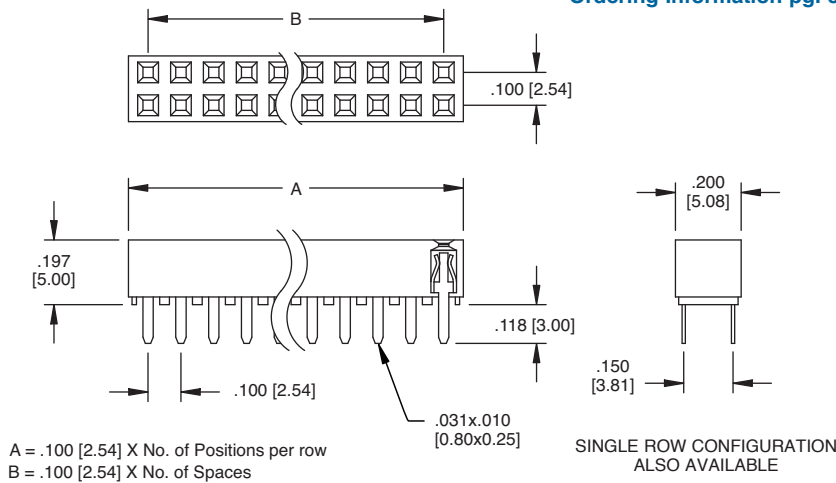
**RS2BE-C
TOP OR BOTTOM
ENTRY**

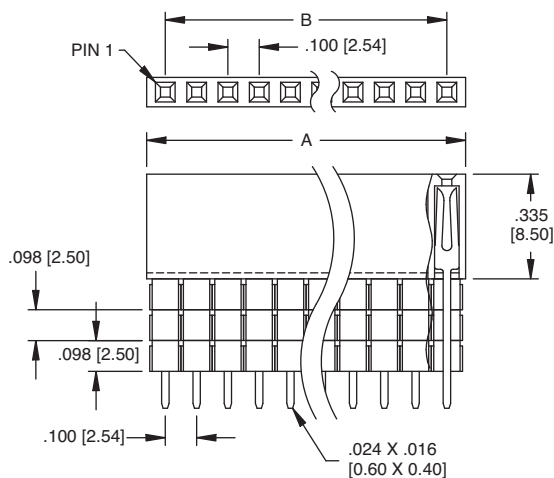


RS2BE-C-30-G

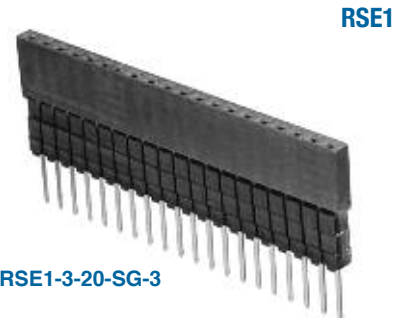


Recommended PCB Layout



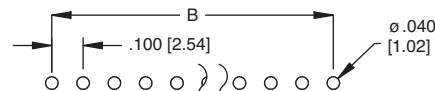


A = .100" [2.54] x No. of positions
B = .100" [2.54] x No. of spaces

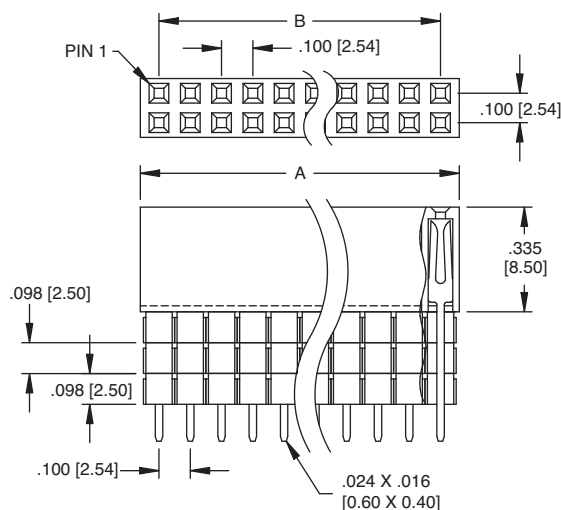


RSE1

RSE1-3-20-SG-3



Recommended PCB Layout

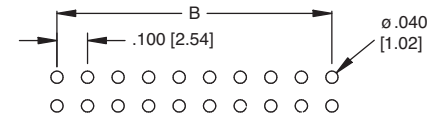


A = .100" [2.54] x No. of positions per row
B = .100" [2.54] x No. of spaces



RSE2

RSE2-3-40-SG-3



Recommended PCB Layout

ORDERING INFORMATION



SERIES INDICATOR
RSE1 = Single row, vertical elevated socket strip

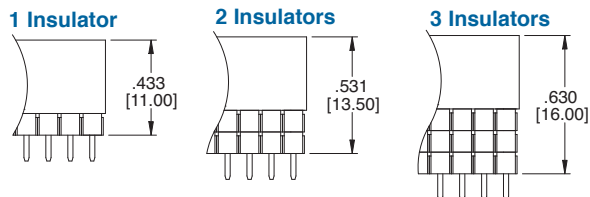
RSE2 = Dual row, vertical elevated socket strip

POSITIONS
Single Row
01 thru 40
Dual Row
02 thru 80

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

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

PIN LENGTH
Dim. D
See chart Dim.D



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.