

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 reinforced, 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:

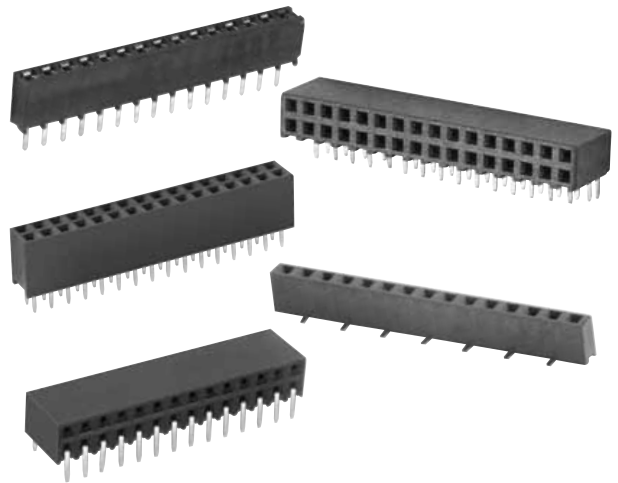
Operating temperature: -40°C to +105°C

PACKAGING:

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

SAFETY AGENCY APPROVALS:

UL Recognized & CSA Certified,
 File no. E224053



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

PLATING

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

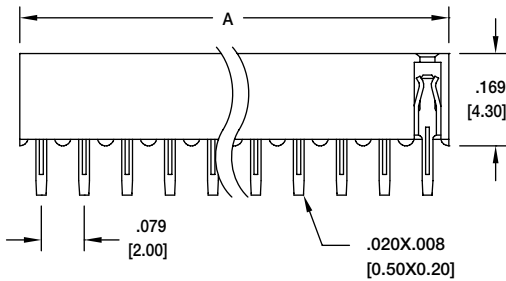
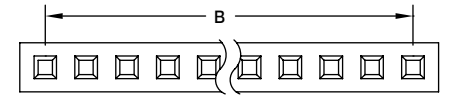
POSITIONS

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

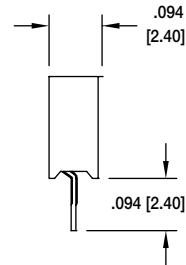
OPTIONS:

- 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)

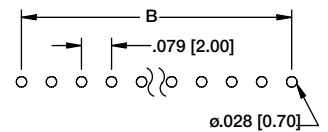
2RS1



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

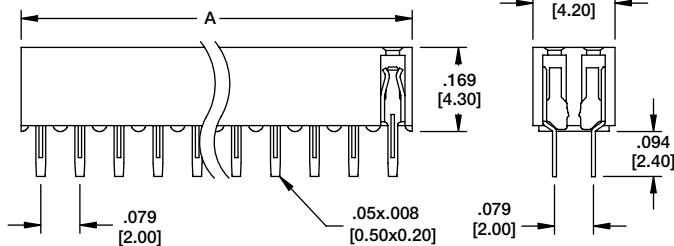
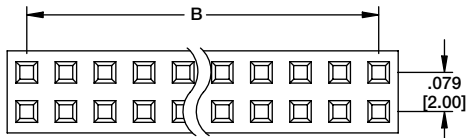


2RS1-15-G

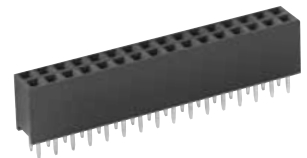


Recommended PCB Layout

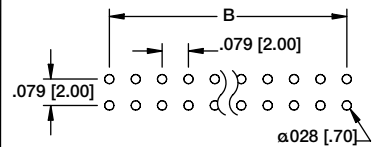
2RS2



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

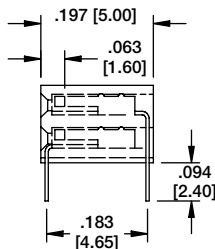
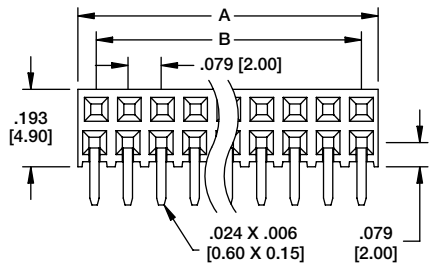


2RS2-32-G

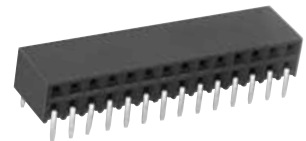


Recommended PCB Layout

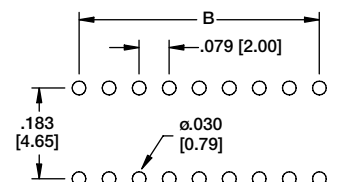
2RS2BR



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

<p> $A = .079 [2.00] \times \text{No. of Positions}$ $B = .079 [2.00] \times \text{No. of Spaces}$ </p>	<p>2RS1R</p> <p>2RS1R-14-G</p> <p>Recommended PCB Layout</p>
<p> $A = .079 [2.00] \times \text{No. of Positions Per Row}$ $B = .079 [2.00] \times \text{No. of Spaces}$ </p>	<p>2RS2R</p> <p>2RS2R-32-G</p> <p>Recommended PCB Layout</p>
<p>TYPE A</p> <p> $A = .079 [2.00] \times \text{No. of Positions}$ $B = .079 [2.00] \times \text{No. of Spaces}$ </p>	<p>2RS1-SMT</p> <p>2RS1-15-SG-SMT-A</p> <p>Recommended PCB Layout</p>
<p> $A = .079 [2.00] \times \text{No. of Positions Per Row}$ $B = .079 [2.00] \times \text{No. of Spaces}$ </p> <p>Optional Guide Peg</p>	<p>2RS2-SMT</p> <p>2RS2-32-SG-SMT</p> <p>Recommended PCB Layout</p>

	<p>A = .079 [2.00] X No. of Positions B = .079 [2.00] x No of Spaces</p>	<p>2RS1H</p> <p>2RS1H-16-G</p> <p>Recommended PCB Layout</p>
	<p>A = .079 [2.00] X No. of Positions Per Row B = .079 [2.00] x No of Spaces</p>	<p>2RS2H</p> <p>2RS2H-32-G</p> <p>Recommended PCB Layout</p>
	<p>A = .079 [2.00] X No. of Positions Per Row B = .079 [2.00] x No of Spaces</p>	<p>2RS2T-SMT TOP ENTRY SOCKET</p> <p>2RS2T-20-SG-SMT</p> <p>Recommended PCB Layout</p>
	<p>A = .079 [2.00] X No. of Positions Per Row B = .079 [2.00] x No of Spaces</p>	<p>2RS2B-SMT BOTTOM ENTRY SOCKET</p> <p>2RS2B-20-SG-SMT</p> <p>Recommended PCB Layout</p>

