

ADAM TECH

ADAM TECHNOLOGIES INC.

INTRODUCTION:

Adam Tech RS Series Receptacle Strips mate with .025" sq. posts and form a variety of precision, modular connections. They are ideally suited for parallel and perpendicular board-to-board connections as well as mating two subsystems together. These receptacles are constructed with precision dual or four sided wipe contacts and each have a anti-overstress feature molded into the insulator. Wide, chamfered angle entry holes enable easy mating and bottom standoffs facilitate post solder cleaning. They mate with any .025" sq. posts on .100" centerlines and are side and end stackable.

FEATURES:

- Choice of body heights with top or bottom entry
- Dual and four sided wipe contact design
- Spring temper phosphor bronze contacts
- Chamfered wide entry area for easy mating

MATING OPTIONS:

Adam Tech PH Series Pin Headers and all industry compatible connectors with .025" sq. posts

SPECIFICATIONS:

Material:

Insulator: Polybutylene Terephthalate (PBT), glass reinforced thermoplastic, rated UL 94V-0

Contacts: Phosphor Bronze

Plating:

- G = 5 μ m gold nom. (optional 30 μ m) to MIL-G-45204, Type II, Grade C min on contact area over 50 μ m nickel underplate to QQ-N-290, Class 2, Grade C, gold flash on solder tails
- SG = 5 μ m gold nom. on mating length to MIL-G-45204, Type II, Grade C, 100 μ m tin to MIL-P-81738 on solder-tails
- T = 100 μ m bright tin plate to MIL-T-10727, Type 1 with 50 μ m copper underplate to MIL-C-14550

Electrical:

- Operation voltage: 250 VAC max
- Current rating: 3 Amps max
- Contact resistance: 20 m Ω max
- Insulation resistance: 5000 M Ω min @ 1500 VDC between adjacent contacts (75°F and 50% R.H.)
- Dielectric withstanding voltage: 1500 VAC min rms (sea level)
- Capacitance: 1.0 pF max between adjacent contacts

Mechanical:

- Insertion force: 6 ozs. per contact max
- Withdrawal force: 2 ozs. per contact max
- Mating cycles: 250 cycles min
- Contact retention in body: 3 lbs. min
- Mating pin range: .022" sq. to .028" sq.
- Insertion Depth: .080" to .250"

Environmental:

Operating temperature: -65°C to +125°C

PACKAGING:

Anti-static plastic trays

APPROVALS AND CERTIFICATIONS:

Recognized under the component program of Underwriters Laboratories, Inc. No. E167232
Certified by Canadian Standards Association No. LR75112

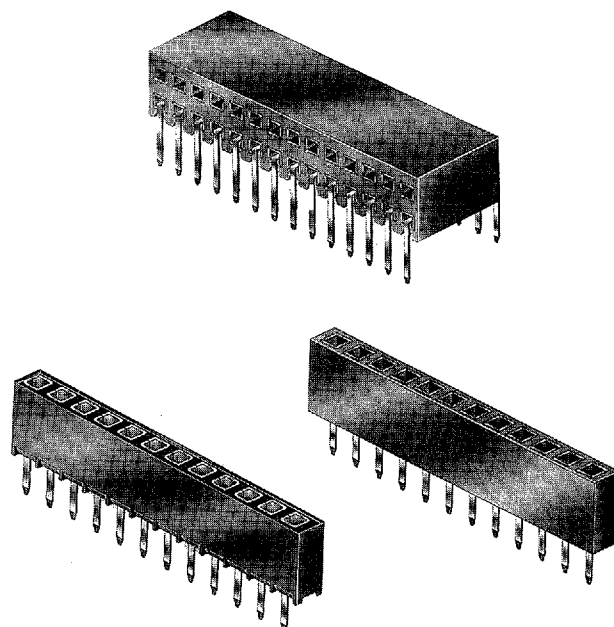


RECEPTACLE STRIPS

SINGLE AND DUAL ROW

.100" [2.54] CENTERLINE

RS SERIES



ORDERING INFORMATION

RS1	31	G
SERIES INDICATOR		PLATING
RS1 = Single row vertical mount receptacle		G = Gold plated
RS1R = Single row right angle mount receptacle		T = Tin plated
RS2 = Dual row vertical mount receptacle		SG = Gold plating in contact area, Tin-Lead Plated solder tails
RS2R = Dual row right angle mount receptacle		
	POSITIONS	
	Single row: 1 thru 43	
	Dual row: 2 thru 80	

OPTIONS:

Add as suffix to basic part number
30 = 30 μ m gold plating on contact area

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RS1

PC Board Layout

$A = .100 [2.54] \times \text{No. of Positions}$
 $B = .100 [2.54] \times \text{No. of Spaces}$

RS2

PC Board Layout

$A = .100 [2.54] \times \text{No. of Positions Per Row}$
 $B = .100 [2.54] \times \text{No. of Spaces}$

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Top view dimensions: $.100 [2.54]$ (height), A (total length), B (pitch), $.025 [.64] \times .018 [.46]$ (contact width).

Side view dimensions: $.331 [8.41]$ (height), $.025 [.64] \times .018 [.46]$ (contact width).

Detail view dimensions: $.063 [1.60]$ (height), $.020 [.50]$ (width), $.138 [3.50]$ (pitch).

3D view labeled **RS1R**.

Inset: **Dual Wiping Contact**.

PC Board Layout

$.100 [2.54]$

B

Dia $.040 [1.02]$

A = $.100 [2.54] \times$ No. of Positions
B = $.100 [2.54] \times$ No. of Spaces

Top view dimensions: $.100 [2.54]$ (height), $.197 [5.00]$ (height), A (total length), B (pitch), $.100 [2.54]$ (pitch).

Side view dimensions: $.331 [8.41]$ (height), $.025 [.64] \times .018 [.46]$ (contact width).

Detail view dimensions: $.063 [1.60]$ (height), $.020 [.50]$ (width), $.138 [3.50]$ (pitch), $.100 [2.54]$ (pitch).

3D view labeled **RS2R**.

Inset: **Dual Wiping Contact**.

PC Board Layout

$.100 [2.54]$

$.100 [2.54]$

B

Dia $.040 [1.02]$

A = $.100 [2.54] \times$ No. of Positions per row
B = $.100 [2.54] \times$ No. of Spaces

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