

Features

- Formerly a Riedon™ product
- Current rating: 1500 to 6000 A
- Standard tolerance $\pm 0.25\%$
- 0.025 to 0.067 m Ω resistance
- Non-inductive metal element
- 50 mV & 100 mV Outputs
- RoHS compliant*

Applications

- Industrial power supplies
- UPS systems
- Inverters

RSJ Series – Riedon™ DC Ammeter Shunts / Busbar Shunts by Bourns

Electrical Characteristics

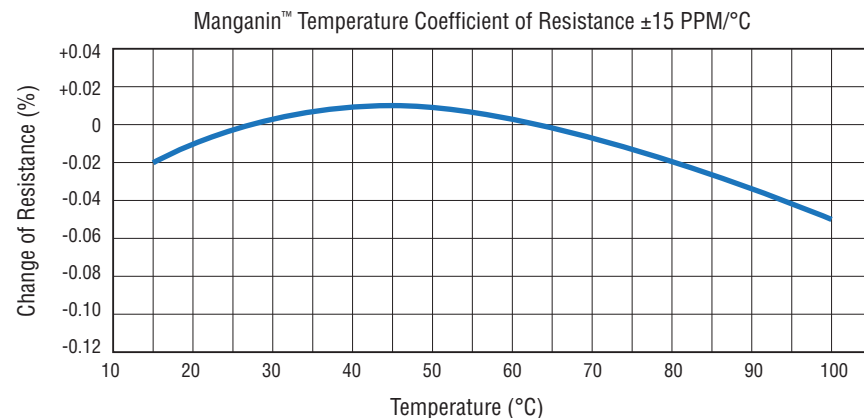
Model	Rated Current (A)	Operating Current (A)	Resistance (m Ω) ¹	
			50 mV Output	100 mV Output
RSJ-1500	1500	1000	0.033	0.067
RSJ-2000	2000	1333.3	0.025	0.05
RSJ-2500	2500	1667	0.020	0.040
RSJ-3000	3000	2000	0.016	0.33
RSJ-4000	4000	2667	0.012	0.025
RSJ-5000	5000	3333	0.010	0.020
RSJ-6000	6000	4000	0.0083	0.016

¹ Please contact Bourns for additional options.

Operating Current Derating

For continuous operation, it is recommended that shunts are not operated at more than two thirds (2/3) the rated current under normal conditions per IEEE standards for DC instrument shunts. At ambient temperatures above 40 °C, the current must be further derated to prevent damage.

TCR Curve



Note: Applies to resistance element only

Additional Information

Click these links for more information:



General Specifications

Rated Output50 mV, 100 mV,
Custom Available
Voltage Tolerance $\pm 0.25\%$ Standard
Operating Temperature
..... -40 °C to +100 °C
Storage Temperature
..... -55 °C to +125 °C
Maximum Blade Temperature.....+145 °C

Materials

ConstructionFlame resistant all-metal
Resistance Element..... Manganin™
Terminal BlockBrass

How to Order

Model **RSJ - 1500 - 50 - S**
Rated Current (see table) _____
Voltage Output (mV) _____
50 = 50 mV
100 = 100 mV
Packaging Option _____
(blank) = Standard Bulk Packaging
-S = Individual Box Packaging



CALIFORNIA WARNING Can expose you to lead, a carcinogen and reproductive toxicant.
See www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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"Riedon Logo" is a registered trademark of BE Services Company, Inc., in the United States.

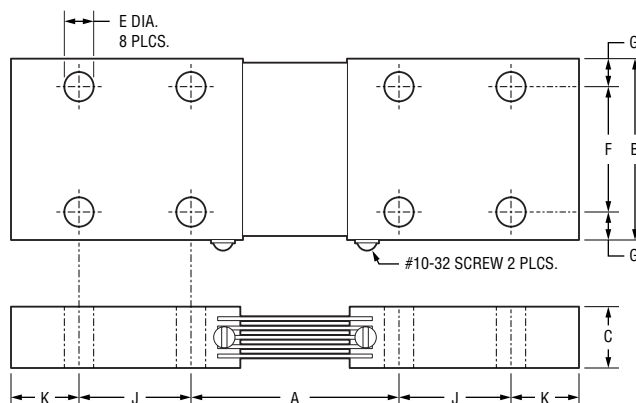
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Product Dimensions



50 mV Output Models

Model	A	B	C	E	F	G	J	K
RSJ-1500-50	$\frac{92}{(3.62)}$	$\frac{76.2}{(3.0)}$	$\frac{25.4}{(1.0)}$	$\frac{11}{(.434)}$	$\frac{50.8}{(2.0)}$	$\frac{12.7}{(0.5)}$	$\frac{50.8}{(2.0)}$	$\frac{25.4}{(1.0)}$
RSJ-2000-50		$\frac{101.6}{(4.0)}$				$\frac{31.8}{(1.25)}$		
RSJ-2500-50								
RSJ-3000-50								
RSJ-4000-50		$\frac{127}{(5.0)}$	$\frac{38.1}{(1.5)}$	$\frac{63.5}{(2.5)}$	$\frac{31.8}{(1.25)}$			
RSJ-5000-50								
RSJ-6000-50								

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

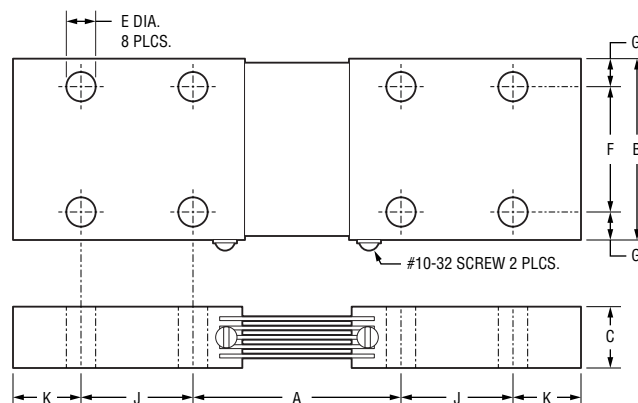
Dimension tolerances: $\pm 0.381 \text{ mm}$ ($\pm 0.015 \text{ in.}$) for hole diameters.
All other dimensions have a $\pm 0.762 \text{ mm}$ ($\pm 0.030 \text{ in.}$) tolerance.

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Product Dimensions (continued)



100 mV Output Models

Model	A	B	C	E	F	G	J	K
RSJ-1500-100	133.4 (5.25)	76.2 (3.0)	25.4 (1.0)	11 (.434)	50.8 (2.0)	12.7 (0.5)	50.8 (2.0)	25.4 (1.0)
RSJ-2000-100		101.6 (4.0)	31.8 (1.25)	14.3 (.563)		25.4 (1.0)		
RSJ-2500-100					63.5 (2.5)			
RSJ-3000-100		127 (5.0)	50.8 (2.0)					
RSJ-4000-100					50.8 (2.0)			
RSJ-5000-100		50.8 (2.0)						
RSJ-6000-100			50.8 (2.0)					

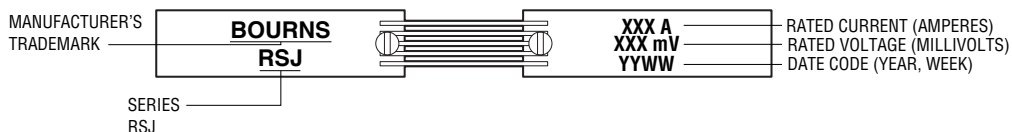
DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Dimension tolerances: $\pm 0.381 \text{ mm}$ ($\pm 0.015 \text{ in.}$) for hole diameters.
All other dimensions have a $\pm 0.762 \text{ mm}$ ($\pm 0.030 \text{ in.}$) tolerance.

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Typical Part Marking



Packaging Specifications

Standard Package Type

Model	Qty. per Package	Packaging
RSJ	1	Wrapped in cellulose wadding

Individual Package Type

Model	Qty. per Package	Packaging (WxLxH)
RSJ	1	Individual box (12.47 x 5.75 x 2.75 in.)

BOURNS®

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