

## Features

- Formerly a Riedon™ product
- Current rating: 1,000 to 3,000 A
- Standard tolerance  $\pm 0.25\%$
- 0.017 to 0.100 m $\Omega$  resistance
- 50 mV & 100 mV outputs
- Calibration certificates available
- RoHS compliant\*

## Applications

- Industrial power supplies
- UPS systems
- Power conversion

# RSK Series – Precision Current Resistor / Busbar Shunts

### Electrical Characteristics<sup>1</sup>

Model	Rated Current (A)	Operating Current (A)	Resistance ( $\mu\Omega$ )	
			50 mV Output	100 mV Output
RSK-1000	1000	667	50	100
RSK-1200	1200	800	41.67	83.33
RSK-1500	1500	1000	33.33	66.67
RSK-2000	2000	1333	25	50
RSK-2500	2500	1667	20	40
RSK-3000	3000	2000	16.67	33.33

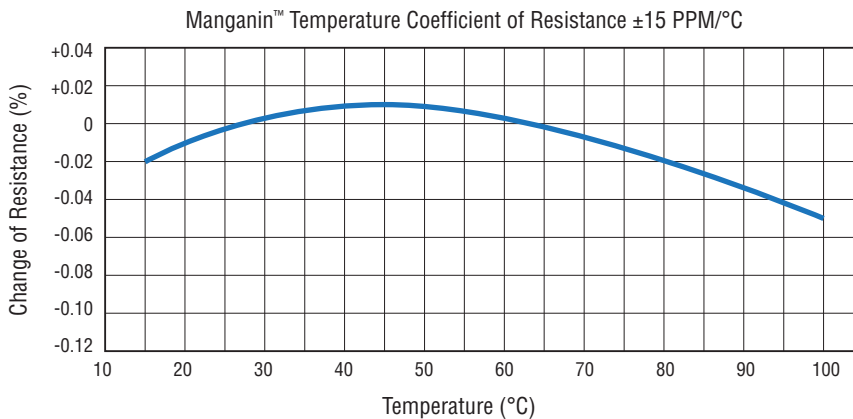
Note:

<sup>1</sup> Please consult 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 Output .....50 mV, 100 mV,  
Custom Available  
Voltage Tolerance .....  $\pm 0.25\%$  Standard  
Operating Temperature  
..... -40 °C to +70 °C  
Storage Temperature  
..... -55 °C to +80 °C

### Materials

Construction .....Flame resistant all-metal  
Resistance Element..... Manganin™  
Terminal Block.....Brass

### How to Order

**RSK - 1500 - 50 - S**

Model \_\_\_\_\_

Rated Current (see table) \_\_\_\_\_  
1000 = 3000 A

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](http://www.P65Warnings.ca.gov)

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

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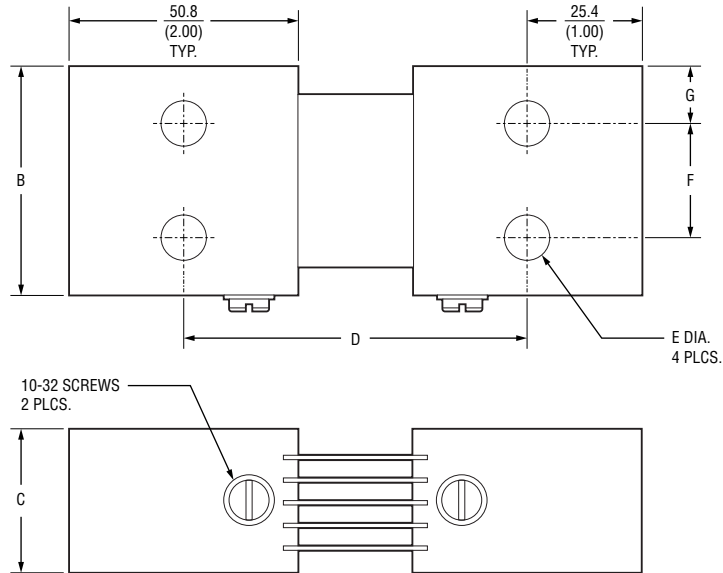
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# RSK Series – Precision Current Resistor / Busbar Shunts

**BOURNS®**

## Product Dimensions



### 50 mV Output Models

Model	B	C	D ± 0.89 (0.035)	E	F	G
RSK-1000-50	50.8 ± 0.79 (2.0 ± .031)	31.8 ± 0.79 (1.25 ± .031)	76.2 (3.0)	10.3 ± 0.13 (.406 ± .005)	25.4 ± 0.38 (1.0 ± .015)	12.7 ± 0.79 (.5 ± .031)
RSK-1200-50			76.2 (3.0)			
RSK-1500-50			73.0 (2.88)			
RSK-2000-50			69.9 (2.75)			
RSK-2500-50			66.7 (2.63)			
RSK-3000-50			63.5 (2.5)			

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

Specifications are subject to change without notice.

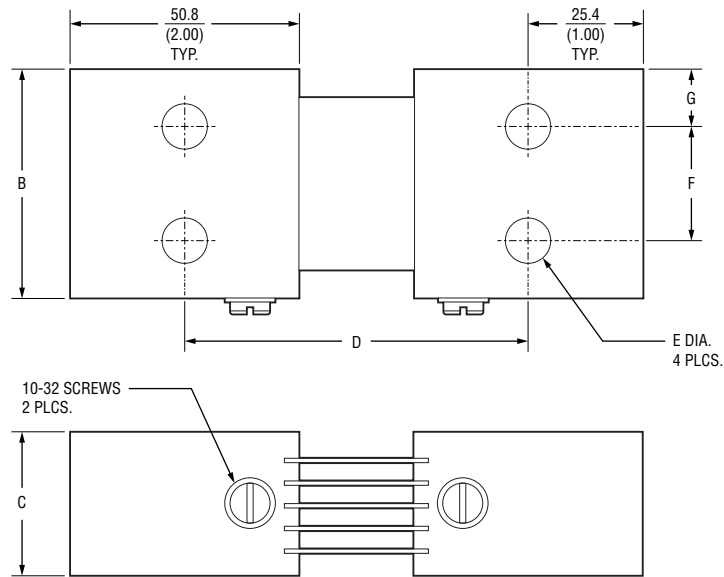
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# RSK Series – Precision Current Resistor / Busbar Shunts

**BOURNS®**

## Product Dimensions



### 100 mV Output Models

Model	B	C	D ± 0.89 (0.035)	E	F	G
RSK-1000-100	50.8 ± 0.79 (2.0 ± .031)	31.8 ± 0.79 (1.25 ± .031)	88.9 (3.5)	10.3 ± 0.13 (.406 ± .005)	25.4 ± 0.38 (1.0 ± .015)	12.7 ± 0.79 (.5 ± .031)
RSK-1200-100			88.9 (3.5)			
RSK-1500-100			85.7 (3.38)			
RSK-2000-100			82.6 (3.25)			
RSK-2500-100			79.4 (3.13)			
RSK-3000-100			76.2 (3.0)			

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

Specifications are subject to change without notice.

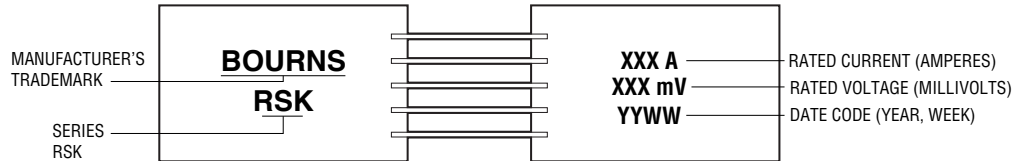
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# RSK Series – Precision Current Resistor / Busbar Shunts

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## Typical Part Marking



## Packaging Specifications

### Standard Package Type

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

### Individual Package Type

Model	Qty. per Package	Packaging (WxLxH)
RSK	1	Individual box (6.35 x 2.38 x 1.88 in.)

**BOURNS®**

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