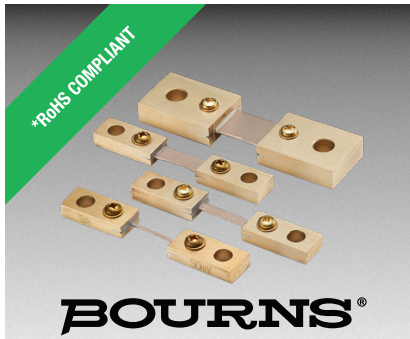




Features

- Formerly a Riedon™ product
- Current rating: 5 to 200 A
- Standard tolerance $\pm 0.25\%$
- 0.25 to 10 m Ω resistance
- Non-inductive metal element
- Center mounted voltage taps

- Compact size
- RoHS compliant*

RSW Series – Riedon™ Precision Current Resistor / Busbar Shunts by Bourns

Electrical Characteristics¹

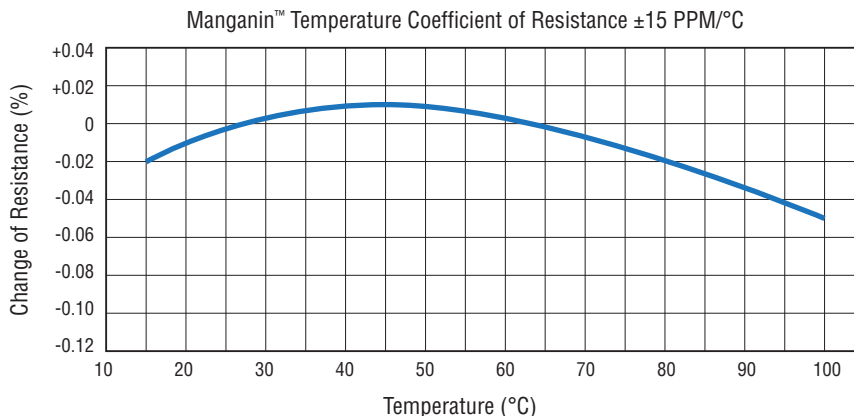
Model	Rated Current (A)	Operating Current (A)	Resistance (m Ω)
RSW-5-50	5	3.33	10
RSW-10-50	10	6.67	5
RSW-15-50	15	10	3.33
RSW-20-50	20	13.33	2.5
RSW-25-50	25	16.67	2
RSW-30-50	30	20	1.67
RSW-40-50	40	26.67	1.25
RSW-50-50	50	33.33	1
RSW-60-50	60	40	0.83
RSW-75-50	75	50	0.67
RSW-80-50	80	53.33	0.625
RSW-100-50	100	66.67	0.5
RSW-120-50	120	80	0.417
RSW-125-50	125	83.33	0.4
RSW-150-50	150	100	0.333
RSW-200-50	200	133.33	0.25

¹Please 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



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

Additional Information

Click these links for more information:



General Specifications

Rated Output50 mV,
Custom Available
Voltage Tolerance $\pm 0.25\%$ Standard
Operating Temperature
..... -40 °C to +70 °C
Storage Temperature
..... -55 °C to +80 °C

Materials

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

How to Order

RSW - 5 - 50 - TH - S

Model _____

Rated Current (see table) _____
5 = 5 A

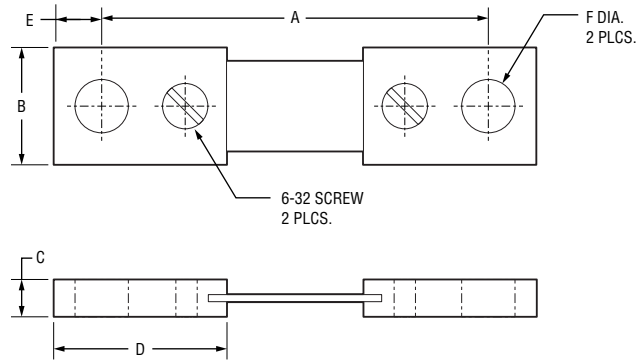
Voltage Output (mV) _____
50 = 50 mV

Optional Termination _____
(blank) = Standard Termination
-TH = Threaded Termination

Packaging Option _____
(blank) = Standard Bulk Packaging
-S = Individual Box Packaging

*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

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Product Dimensions

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

Model	A	B	C	D	E	F Through (standard)	F Threaded (optional)
RSW-5-50	63.5 ± 0.89 ($2.5 \pm .035$)	12.7 ± 0.79 ($.5 \pm .031$)	6.35 ± 0.79 ($.25 \pm .031$)	28.58 ± 0.79 ($1.125 \pm .031$)	7.95 ± 0.79 ($.313 \pm .031$)	6.73 ± 0.13 ($.266 \pm .005$)	1/4-20
RSW-10-50							
RSW-15-50							
RSW-20-50							
RSW-25-50							
RSW-30-50							
RSW-40-50							
RSW-50-50							
RSW-60-50	69.85 ± 0.89 ($2.75 \pm .035$)	19.1 ± 0.79 ($.75 \pm .031$)	9.53 ± 0.79 ($.375 \pm .031$)	34.93 ± 0.79 ($1.375 \pm .031$)	11.13 ± 0.79 ($.438 \pm .031$)	8.33 ± 0.13 ($.328 \pm .005$)	5/16-18
RSW-75-50							
RSW-80-50							
RSW-100-50	73.03 ± 0.89 ($2.875 \pm .035$)	25.4 ± 0.79 ($1.0 \pm .031$)	12.7 ± 0.79 ($.5 \pm .031$)			9.53 ± 0.13 ($.375 \pm .005$)	3/8-16
RSW-120-50						11.51 ± 0.13 ($.453 \pm .005$)	7/16-14
RSW-125-50							
RSW-150-50							
RSW-200-50							

Specifications are subject to change without notice.

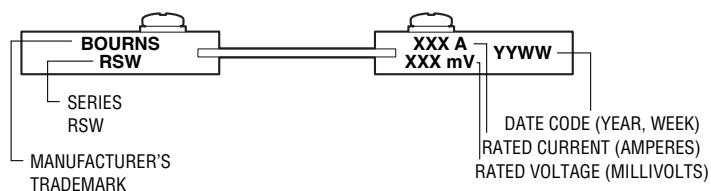
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RSW Series – Riedon™ Precision Current Resistor / Busbar Shunts by Bourns

BOURNS®

Typical Part Marking



Packaging Specifications

Standard Package Type

Model	Qty. per Package	Packaging
RSW	3	Wrapped in cellulose wadding

Individual Package Type

Model	Qty. per Package	Packaging (WxLxH)
RSW	1	Individual box (4.85 x 2.13 x 2.25 in.)

BOURNS®

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