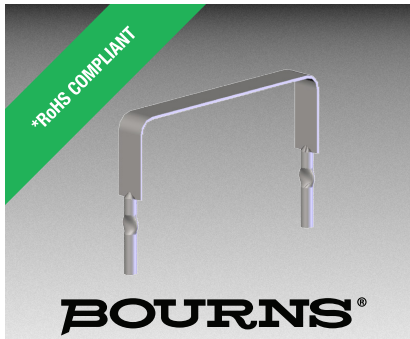




Features

- Formerly a Riedon™ product
- Resistances from 0.005 Ω to 0.10 Ω
- Resistance tolerances as low as ±1 %
- Power rating: 1, 3 or 5 watts
- Resistance wire TCR: ±20 PPM/°C
- For current sensing and shunt applications
- All welded construction
- Low inductance (<10 nH to 50 nH typical)
- Flame resistant non-inductive bare metal element
- Superior pulse capabilities
- RoHS compliant*

MSR Series – Riedon™ Bare Metal Element Resistors by Bourns

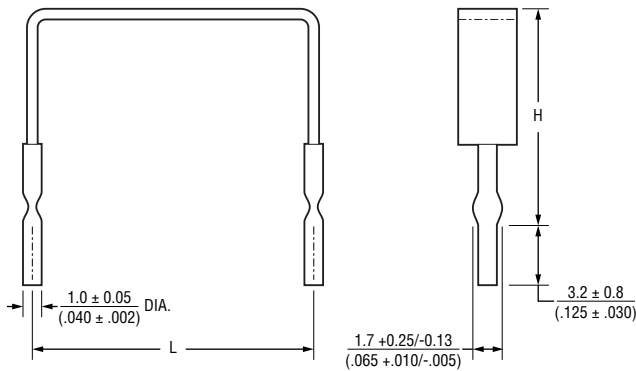
Specifications

Bourns Model Number	Power Rating @ 85 °C (W)	Resistance (Ω) ¹	Available Tolerances	Operating Temperature (°C)	Dimensions	
					L	H
MSR-1	1	0.005, 0.01, 0.02, 0.025, 0.03, 0.04, 0.05, 0.1	±1 % / ±5 %	-55 to +275	$\frac{11.4 + 1.0/-0.5}{(.450 + .039/- .020)}$	$\frac{5.1 \pm 2.5}{(.201 \pm .098)}$
MSR-3	3	0.005, 0.01, 0.015, 0.02, 0.025, 0.03, 0.04, 0.05, 0.1			$\frac{15.2 + 1.0/-0.5}{(.598 + .039/- .020)}$	$\frac{25.4}{(.100)} \text{ MAX.}$
MSR-5	5	0.005, 0.01, 0.015, 0.02, 0.025, 0.03, 0.05, 0.1			$\frac{20.3 + 1.0/-0.5}{(.799 + .039/- .020)}$	

¹ Other resistance values may be available. Please [contact Bourns](#).

Note: Terminal finish 100 % matte tin over copper

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



The width of the resistive element ranges from 1.61 mm / 0.063 in. to 4.76 mm / 0.188 in., based on resistance value and TCR.

How To Order

Model _____ **MSR 3 - 0R1 F 1**

Power Rating (W) _____
1 3 5

Resistance Code _____
"R" represents decimal point
(Example: 0R1 = 0.1 Ω)

Tolerance _____
F = ±1 % J = ±5 %

Internal Use _____
(Specific TCR values available upon request.)

Packaging Information

Bulk only. 250 per pack.

REV. 05/26

*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.

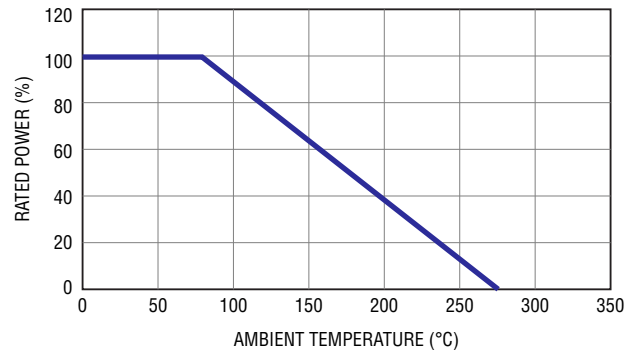
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In April 2023, BE Services Company, Inc., a subsidiary of Bourns, Inc., purchased certain assets of Riedon, Inc., including its logo and trademarks and the right to continue to manufacture former Riedon™ products.

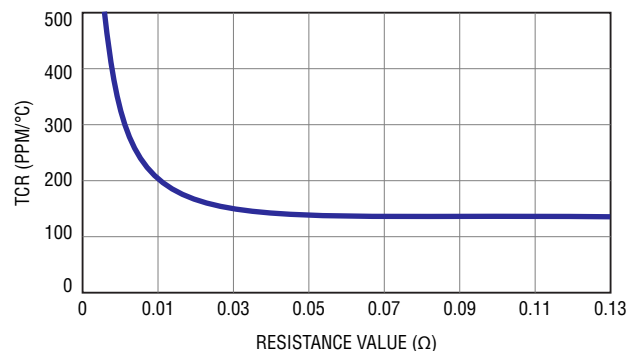
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Derating Curve



Temperature Coefficient of Resistance (TCR)



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

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