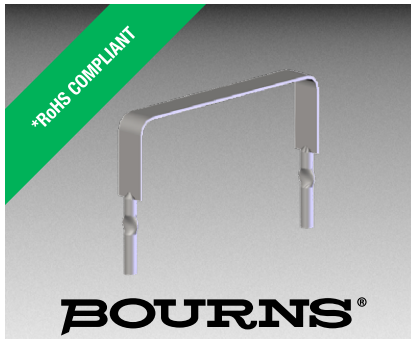




Features

- Formerly a Riedon™ product
- Resistances from 0.005 Ω to 0.10 Ω
- Resistance tolerances as low as $\pm 1\%$
- Power rating: 1, 3 or 5 watts
- Resistance wire TCR: ± 20 PPM/ $^{\circ}\text{C}$
- 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

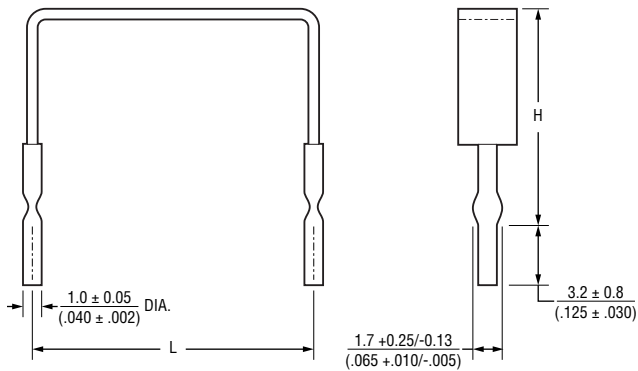
Specifications

Bourns Model Number	Power Rating @ 85 $^{\circ}\text{C}$ (W)	Resistance (Ω) ¹	Available Tolerances	Operating Temperature ($^{\circ}\text{C}$)	Dimensions	
					L	H
MSR-1	1	0.005, 0.01, 0.02, 0.025, 0.03, 0.04, 0.05, 0.1	$\pm 1\%$ / $\pm 5\%$	-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			$\frac{20.3 + 1.0/-0.5}{(.799 + .039/- .020)}$	

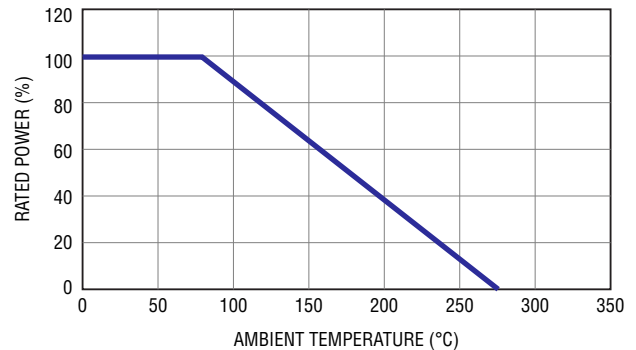
¹ Other resistance values may be available. Please [contact Bourns](#).

Note: Terminal finish 100 % matte tin over copper

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



Derating Curve



How To Order

Model MSR 3 - 0R1 F 1

Power Rating (W) 1 3 5

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

Tolerance F
 F = $\pm 1\%$ J = $\pm 5\%$

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

Packaging Information

Bulk only. 250 per pack.

REV. 10/24

*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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 Cancer and Reproductive Harm
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