

Features

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

MS Series – Riedon™ Bare Metal Element Resistors by Bourns

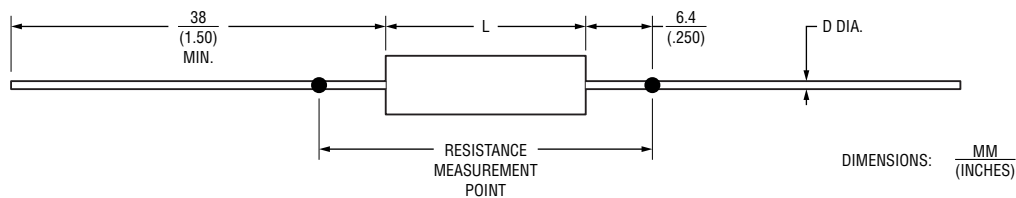
Specifications

Bourns Model Number	Power Rating @ 85 °C (W)	Resistance Range (Ω) ¹	Available Tolerances	TCR (PPM/°C)	Operating Temperature (°C)	Dimensions	
						L	D
MS1	1	0.005 to 0.10	±1 % / ±5 %	see chart	-55 to +275	+1.0 / -0.5 (+.040 / -.020) (Contact Bourns for other options)	1.0 ± 0.05 (.040 ± .002)
MS3	3	0.005 to 0.10					0.8 ± 0.05 (.032 ± .002)
MS5	5	0.005 to 0.05					1.0 ± 0.05 (.040 ± .002)

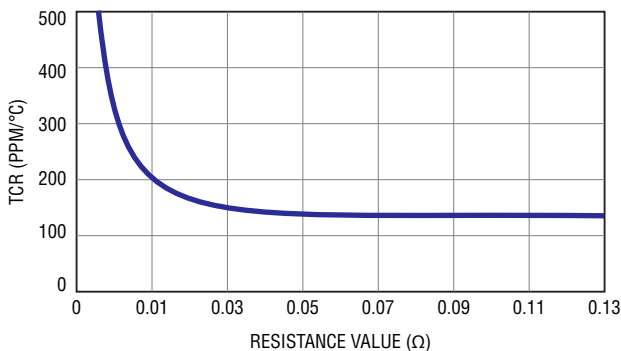
¹ Other resistance values may be available. Please [contact Bourns](#).

Note: Terminal finish 100 % matte tin over copper.

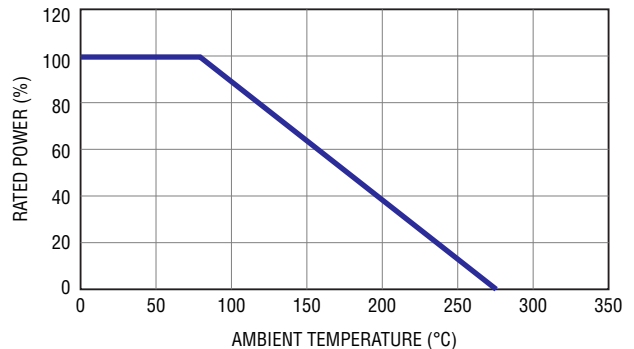
Product Dimensions



Temperature Coefficient of Resistance (TCR)



Derating Curve



WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*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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Additional Information

Click these links for more information:



MS Series – Riedon™ Bare Metal Element Resistors by Bourns



How To Order

MS 3 - 0R1 F 1

Model _____

Power Rating (Watts) _____

1
3
5

Resistance Code _____

For values <1K Ω , "R" represents decimal point
(Example: 0R1 = 0.1 Ω)

For values \geq 1K Ω , "K" represents decimal point
(Example 1K = 1K Ω , 1K5 = 1.5K Ω)

Tolerance _____

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

Internal Use _____

(Specific TCR values available upon request.)

Packaging Specifications

Bulk..... 250 pcs.



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REV. 10/24

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Users should verify actual device performance in their specific applications.

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