

MSR Bare Element Resistors



Developed for current sensing and shunt applications. With special alloy element, copper-clad steel leads and welded construction. Built in stand-offs and standard lead spacings make for easy mounting.

- Flameproof construction
- Values from 0.005 ohms
- Low inductance
- TCR 20ppm/°C
- RoHS Compliant



Characteristics

Operating temperature: To 275 °C
Tolerance (Code): $\pm 1\%$ (F), $\pm 5\%$ (J)
Temperature Coefficient (Code): Typically 20 ppm
Inductance: <10 nHenries

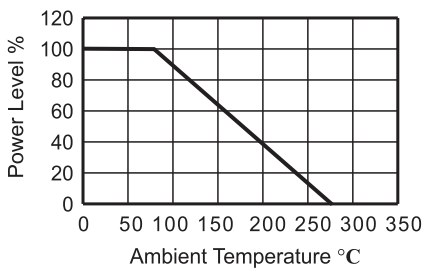
Ordering Procedure

Standard Resistor To specify: Type, Resistance Value and Tolerance Code, e.g.: MSR 3 R05 F
Tolerance (Code) $\pm 1\%$ (F), $\pm 5\%$ (J)

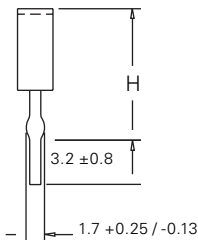
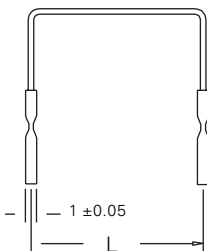
Electrical Specifications

Type	Power rating at 85°C	Resistance Values	Tolerances	Inductance
MSR1	1	R005, R01, R02, R025, R03, R04, R05, R1	$\pm 1\%$, $\pm 5\%$	<10 nH
MSR3	3	R005, R01, R015, R02, R025, R03, R04, R05, R1	$\pm 1\%$, $\pm 5\%$	<10 nH
MSR5	5	R005, R01, R015, R02, R025, R03, R05, R1	$\pm 1\%$, $\pm 5\%$	<10 nH

Derating Curve



Dimensions (mm)



Type	L	H
MSR1	11.4 +1.0/-0.5	5.10 ± 2.5
MSR3	15.20 +1.0/-0.5	25.4 max
MSR5	20.30 +1.0/-0.05	25.4 max

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The information contained herein does not form part of a contract and is subject to change without notice. Arcol operate a policy of continual product development, therefore, specifications may change.

It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask Arcol.