

# 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): ±1% (F), ±5% (J)  
 Temperature Coefficient (Code): Typically 20 ppm  
 Inductance: <10 nHenries

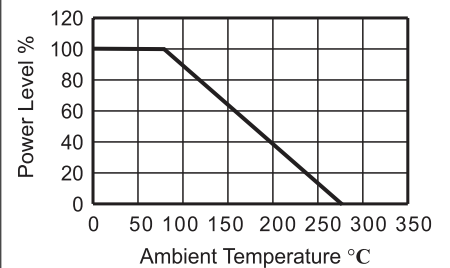
## Ordering Procedure

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

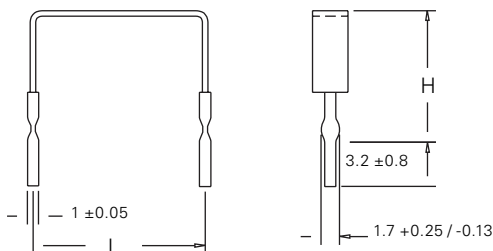
## Electrical Specifications

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

## 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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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.