

# MSR Series

Bare Metal Element Resistors

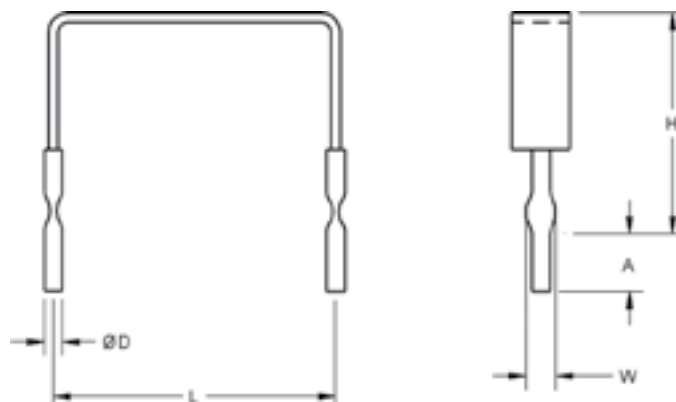
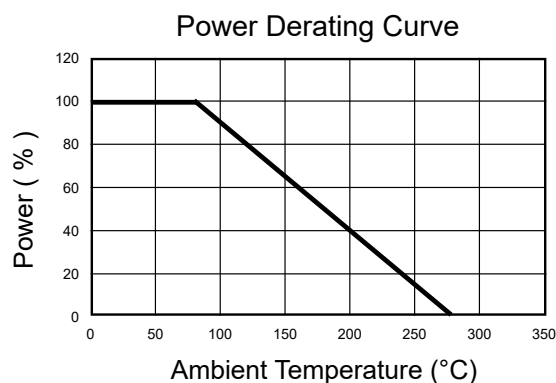


- Resistances from 0.005 to 0.100Ohms
- Tolerance to  $\pm 1\%$
- Resistance Wire TCR:  $\pm 20\text{ppm}/^\circ\text{C}$
- For Current Sensing and Shunt Applications
- All Welded Construction
- Low Inductance (  $<10\text{nH}$  )
- Flame Resistant Non-Inductive Bare Metal Element
- Superior Pulse Capabilities

## SPECIFICATIONS

Type	Power Rating Watts @ 85°C	Resistance ( $\Omega$ ) <sup>1</sup>	Tolerances	Dimensions				
				L +0.040 / -0.020" [+1.0 / -0.5mm]	H  ±0.100" [±2.5mm]	D ±0.002" [±0.05mm]	W +0.010 / -0.005" [+0.25 / -0.13mm]	A ±0.030" [±0.8mm]
<b>MSR-1</b>	1	0.005, 0.01, 0.02, 0.025, 0.03, 0.04, 0.05, 0.1	$\pm 1\%$ / $\pm 5\%$	0.450 [11.4]	0.200 [5.1] ±0.100" [±2.5mm]	0.040 [1.0]	0.065 [1.7]	0.125 [3.2]
<b>MSR-3</b>	3	0.005, 0.01, 0.015, 0.02, 0.025, 0.03, 0.04, 0.05, 0.1	$\pm 1\%$ / $\pm 5\%$	0.600 [15.2]	1.0 [25.4] MAX	0.040 [1.0]	0.065 [1.7]	0.125 [3.2]
<b>MSR-5</b>	5	0.005, 0.01, 0.015, 0.02, 0.025, 0.03, 0.05, 0.1	$\pm 1\%$ / $\pm 5\%$	0.800 [20.3]	1.0 [25.4] MAX	0.040 [1.0]	0.065 [1.7]	0.125 [3.2]

<sup>1</sup> Call Factory for Other Resistances



Note: Terminal Finish 100% Matte Tin over Copper

### Standard Package Quantities

MSR-1	250 (Bulk Only)
MSR-3	
MSR-5	

## Ordering Information

Part Description: Part Type - Resistance - Tolerance

Example: MSR-3 0.100Ohm 1%