**MSR Series**

Bare Metal Element Resistors

- Resistances from 0.005 to 0.100Ohms
- Tolerance to ±1%
- Resistance Wire TCR: ± 20ppm/°C
- For Current Sensing and Shunt Applications
- All Welded Construction
- Low Inductance ( <10nH to 50nH typical)
- Flame Resistant Non-Inductive Bare Metal Element
- Superior Pulse Capabilities

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>Power Rating Watts @ 85°C</th>
<th>Resistance (Ω)¹</th>
<th>Tolerances</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSR-1</td>
<td>1</td>
<td>0.005, 0.01, 0.02, 0.025, 0.03, 0.04, 0.05, 0.1</td>
<td>±1% / ±5%</td>
<td>L: 0.450 [11.4] H: 0.200 [5.1] W: 0.040 [1.0] A: 0.125 [3.2]</td>
</tr>
<tr>
<td>MSR-3</td>
<td>3</td>
<td>0.005, 0.01, 0.015, 0.02, 0.025, 0.03, 0.04, 0.05, 0.1</td>
<td>±1% / ±5%</td>
<td>L: 0.600 [15.2] H: 1.0 [25.4] MAX W: 0.040 [1.0] A: 0.125 [3.2]</td>
</tr>
<tr>
<td>MSR-5</td>
<td>5</td>
<td>0.005, 0.01, 0.015, 0.02, 0.025, 0.03, 0.05, 0.1</td>
<td>±1% / ±5%</td>
<td>L: 0.800 [20.3] H: 1.0 [25.4] MAX W: 0.040 [1.0] A: 0.125 [3.2]</td>
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</tbody>
</table>

¹ Call Factory for Other Resistances

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**Ordering Information**

Part Description: Part Type - Resistance - Tolerance
Example: MSR-3 0.100Ohm 1%

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**Note:** Terminal Finish 100% Matte Tin over Copper