GENERAL DESCRIPTION

The HR Series is the next generation of surface mount High Value Resistors. This product was designed with our proprietary Glass Sandwich FLEXITERM® Technology. The FLEXITERM® is a surface mountable automotive and medically qualified termination that adds an extra margin against damage due to flexure during installation. The HR Series has been designed with high quality selected materials that yield excellent performance in a small size. Resistor is designed to be embedded in glass sandwich to avoid environmental conditions, and provide low burst noise at high thin film resistance values. This product is ideal for use in applications requiring surface mountable small outline EIA resistors.

FEATURES

• EIA 0201 & 0402 Size
• Power Rating: 125 mW
• Low Current Consumption
• High Voltage
• Operating Temperature -40°C to +125°C
• Low Burst Noise

APPLICATIONS

• Multi Chip Module (MCM)
• Bias Networks
• Test and Measurement Equipment
• Aerospace
• Medical
• Automotive

MECHANICAL DIMENSIONS mm (inches)

| Resistor Detail | Outline | EIA 0402 | Package | Glass wafer sandwich | Maximum Voltage | 1 KV | Resistance Value Range | From 200 Ohms to 30 MOhms | Termination | FLEXITERM® (Ag/Epoxy), plated | Power Rating | 125 mW | Operating Temperature Range | -40°C to +125°C | Tolerances | 0.5%, 1%, 2%, 5% |

0402 SPECIFICATIONS

RESISTOR MATERIAL (SiCr) PROPERTIES

<table>
<thead>
<tr>
<th>Sheet Resistance (Ohms per Square)</th>
<th>TCR ppm/°C</th>
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<tbody>
<tr>
<td>300 to 1300</td>
<td>±25, ±50, ±100, ±250</td>
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</table>
SUGGESTED MOUNTING PAD DIMENSIONS

Normal Pads

W = Chip Width   L = Chip Length   T = Chip Thickness

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</thead>
<tbody>
<tr>
<td>0402</td>
<td>0.0213</td>
<td>0.0125</td>
<td>0.0206</td>
<td>0.0436</td>
</tr>
</tbody>
</table>

Dimensions are in inches.

POWER DERATING

Power Derating Curve

Rated Power [mW] vs. Ambient Temperature [°C]

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