**General Description**

Top Contact Precision wire bondable resistors are ultra-stable with high reliability. Resistors are laser trimmed to tight tolerance. Customizable value and unique marking of that value. This device is built in 0202 chip outline and is ideal for but not limited to hybrid circuit applications. These are designed specifically for applications that require thermo-compression, epoxy or ultra-sonic attachment.

**Applications**

- Medical Implantable
- Military / Defense
- Hybrid Designs
- Multi-Chip Module (MCM)
- Test & Measurement Instrumentation
- High-Rel Microelectronics
- RF / Microwave communications

**Benefits**

- Top Contact / Bottom Isolated
- Ultra High Stability
- High Reliability
- Extremely Tight Tolerance
- Unique Value Marking
- 250 mW Power Rating
- Small package size

**How to Order**

```
WBR 0202 S C 1R051 F G W
```

**Mechanical Dimensions Inches (mm)**

<table>
<thead>
<tr>
<th>Size</th>
<th>Length (L)</th>
<th>Width (W)</th>
<th>Minimum Bond Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>0202</td>
<td>0.020 ± 0.003 (0.51 ± 0.076)</td>
<td>0.020 ± 0.003 (0.51 ± 0.076)</td>
<td>0.0038 ± 0.0038 (0.09 x 0.09)</td>
</tr>
</tbody>
</table>

Other sizes available upon request

**General Characteristics**

- **Resistance Range**: 1.0 Ohm - 10.0 Mohm
- **Resistance Tolerance**: ± 1%, ± 2% ± 0.1%, ± 0.5%,
- **Termination Type**: Gold, Aluminum
- **Back**: Bare (Lapped) Substrate
- **Operating Temperature**: -55°C ± 125°C
- **Insulation Resistance**: 10^4Mohm

Custom values up to 10meg Ohm available upon request

**Environmental Tests**

<table>
<thead>
<tr>
<th>Test</th>
<th>Limits</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Life Test / Stability</td>
<td>±0.25% Max Δ R/R</td>
<td>MIL-STD-202 MTD 108, 1000hrs, 125°C, 50mW</td>
</tr>
<tr>
<td>Thermal Shock</td>
<td>±0.25% Max Δ R/R</td>
<td>MIL-STD-202 MTD 107</td>
</tr>
<tr>
<td>High Temperature Exposure</td>
<td>±0.25% Max Δ R/R</td>
<td>100 Hrs @ 150°C</td>
</tr>
<tr>
<td>Moisture Resistance</td>
<td>±0.25% Max Δ R/R</td>
<td>MIL-STD-202 MTD 106</td>
</tr>
<tr>
<td>Wire Bond Test</td>
<td>4 Gram Min (1.25 Mill Wire)</td>
<td>MIL – PRF-55342</td>
</tr>
<tr>
<td>Short Time Overload</td>
<td>±0.25% Max Δ R/R</td>
<td>MIL – PRF-55342</td>
</tr>
</tbody>
</table>

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The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.