## Ultra Precision Chip Resistors
### BLU Series

- Industry’s widest range of precision chip resistors!
- Tolerance to ±0.01%, TCR to 5 ppm/°C

#### Custom Options
- **Option P:** Pulse resistant design
- **Option ER:** Burn-In for Hi-Rel applications
- **Option V:** +200°C operating temperature
- **Option A:** Marking of resis. code in 3 or 4 digits (not available on BLU0201 or BLU0402)
- Matched sets and TC’s to 2ppm available (limited range)

‘Blu-Chip’ performance at an economical price!
RCR’s expertise in the field of ultra-precision resistors since 1973, combined with the latest in automated chip resistor production equipment, enables precision chip resistors at prices comparable to lower grade devices. The BLU-chip design features excellent stability levels. Intermediate and extended-range values are available on custom basis. Popular values are available from stock.

### Typical Performance Characteristics

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Characteristics (5-25ppm)*</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Time Overload, 5 Sec.</td>
<td>±0.1% R</td>
<td>Rated W x 2.5, nte 2x Max. Voltage</td>
</tr>
<tr>
<td>Resistance to Solder Heat</td>
<td>± 0.05% R</td>
<td>260 ± 5°C, 3 seconds</td>
</tr>
<tr>
<td>High Temperature Exposure</td>
<td>± 0.1% R</td>
<td>100 hours @ +125°C</td>
</tr>
<tr>
<td>Thermal Shock</td>
<td>± 0.1% R</td>
<td>-55°C to +125°C, 0.5 hrs, 5 cycles</td>
</tr>
<tr>
<td>Moisture Resistance</td>
<td>± 0.2% R</td>
<td>MIL-STD-202 M103 95% RH 1000hrs</td>
</tr>
<tr>
<td>Load Life (1000 hours)</td>
<td>± 0.1% (± .25% 10,000 hrs)</td>
<td>MIL-PRF-55342G 4.8.11.1 ceramic</td>
</tr>
<tr>
<td>Solderability</td>
<td>95% (Min.), 1000 hours</td>
<td>MIL-STD-202, Method 208</td>
</tr>
<tr>
<td>Dielectric Withstand Voltage</td>
<td>250V (100V 402 &amp; 0603)</td>
<td>Room Temp. &amp; Humidity, No Load</td>
</tr>
</tbody>
</table>

### DERATING CURVE

Resistors may be operated up to full rated power with consideration of mounting density, pad geometry, PCB material, and ambient temperature.

### P/N Designation:

- **BLU1206**
- **1002**
- **B**
- **25 W**

- **RCD Type**
- Options: P, ER, A (leave blank if standard)
- 4-Digit Resistance Code: 3 signif. digits & multiplier (10R=10Ω, 1000=100Ω, 1001=1KΩ)
- Tolerance Code: F=1%, D=0.5%, C=0.25%, B=0.1%, A=0.05%, Q=0.02%, T=0.01%
- Packaging: B = Bulk, T = Tape & Reel
- TC: 5=5ppm, 10=10ppm, 15=15ppm, 25=25ppm, 50=50ppm, 101=100ppm
- Termination: W= Lead-free (std), Q= Tin/Lead (leave blank if both acceptable)

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