Power Ribbon Wire-Wound Resistors (QL/QRZG)

Features:
• High power load up to 2500W
• Good resistivity to short time overload
• High resistivity to heat in low TCR
• Too high or low ohmic value can supplied on a case to case basis
• Multi-terminal /variable types available by request

Application:
• Discharge Equipment
• Power load bank
• Tools that requires stability & reliability
• Industrial braking function

IATF 16949
ISO 14001

www.royalohm.com

42 Years
Resistors Specialist
# Power Ribbon Wire-Wound Resistors (QL/QRZG)

<table>
<thead>
<tr>
<th>Type</th>
<th>Power Rating</th>
<th>Resistance Range</th>
<th>Tolerance</th>
<th>Operating temperature range</th>
</tr>
</thead>
<tbody>
<tr>
<td>QH/QL</td>
<td>20W - 2500W</td>
<td>1Ω - 200K</td>
<td>5%,10%</td>
<td>-55 ~ +155 °C</td>
</tr>
<tr>
<td>QR/QRZG</td>
<td>200W - 2500W</td>
<td>0.2Ω - 100Ω</td>
<td>5%,10%</td>
<td>-55 ~ +155 °C</td>
</tr>
</tbody>
</table>

## Electrical Characteristics

- **Temperature Coefficient**
  - <20Ω : ± 400 PPM/°C Max.
  - ≥20Ω : ± 300 PPM/°C Max.

- **Short Time Overload**
  - 2.5x rate power 5sec.

- **Load Life**
  - 70°C 1000Hr.

- **Insulation Resistance**
  - DC 500V ≥20MΩ

## Derating Curve

<table>
<thead>
<tr>
<th>Ambient Temperature (°C)</th>
<th>Percent Rated Load (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-55</td>
<td>100</td>
</tr>
<tr>
<td>0</td>
<td>80</td>
</tr>
<tr>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td>100</td>
<td>40</td>
</tr>
<tr>
<td>150</td>
<td>20</td>
</tr>
<tr>
<td>200</td>
<td>0</td>
</tr>
</tbody>
</table>

## Temperature Rise Chart

- Temperature rise (°C) vs. Rated load (%)