LPC Heavy Duty Open Wound Power Resistors (HB)

Technical Information

Style HB – Adjustable Heavy Duty Open Wound Power Resistor

Introduction

The range of LPC Heavy Duty Open Wound Power Resistors are available from 240 to 1080 Watts. They are RoHS Compliant and are wound on 50mm diameter ceramic tubes. Mounted by means of horizontal mounting feet, they are supplied with one adjustable tapping band as standard. More adjustable bands can be supplied on request. Removal of the adjustable band creates a fixed resistor.

Ordering Procedure

Adjustable Resistors—Specify: Type, Ohmic Value, Tappings, Tolerance. E.g. HB24-200R-2T±5%

General Notes

Ohmic Values

The range of ohmic values and dimensions available are shown below. You may select any ohmic value between the max and min values.

<table>
<thead>
<tr>
<th>Type</th>
<th>Watts</th>
<th>Resistance (Ohms)</th>
<th>Dimensions (mm) ±2mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Min</td>
<td>Max</td>
</tr>
<tr>
<td>HB24</td>
<td>240</td>
<td>0.216</td>
<td>432</td>
</tr>
<tr>
<td>HB36</td>
<td>360</td>
<td>0.292</td>
<td>576</td>
</tr>
<tr>
<td>HB48</td>
<td>480</td>
<td>0.36</td>
<td>720</td>
</tr>
<tr>
<td>HB60</td>
<td>600</td>
<td>0.435</td>
<td>864</td>
</tr>
<tr>
<td>HB72</td>
<td>720</td>
<td>0.518</td>
<td>1002</td>
</tr>
<tr>
<td>HB84</td>
<td>840</td>
<td>0.58</td>
<td>1152</td>
</tr>
<tr>
<td>HB96</td>
<td>960</td>
<td>0.654</td>
<td>1230</td>
</tr>
<tr>
<td>HB108</td>
<td>1080</td>
<td>0.726</td>
<td>1440</td>
</tr>
</tbody>
</table>

Tolerance:
- Fixed above 10R ±5%
- Fixed below 10R ±10%
- All Adjustable resistors ±10%

Product Details

The ceramic formers are non-hygroscopic, will withstand severe thermal shock and have a thermal coefficient of expansion that matches the component parts of the resistor. The Thermal Coefficient of Expansion is better than 0.02% per °C. To include a safety factor the surface temperature rise should not be more than 450°C. The HB range of heavy duty resistors can be supplied with a vitreous enamel or silicone coating if required.

Maximum Operating Voltages

As a general rule voltage should be limited to a maximum of 1KV per 25mm of winding. However, if the resistor is mounted on a non-insulated material 2KV should be regarded as the absolute maximum.

Round Section High Power & Low Wattage Resistors

LPC manufacture a number other high power resistors as well as low wattage resistors. For details please contact our technical staff or see our website.

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The information contained herein does not form part of a contract and is subject to change without notice. LPC operates a programme of continuous product development and as such specifications may change.

It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If further information is required please contact LPC.