HSW Aluminium Housed Resistors

Manufactured in line with the requirements of MIL 18546 and IEC 115, designed for direct heatsink mounting with thermal compound to achieve maximum performance.

• High Power to volume
• Wound to maximise High Pulse Capability
• Values from R1 to 30K
• Custom designs welcome
• RoHS Compliant

Characteristics

Tolerance (Code):
Tolerance for low Ω values: Standard ±5% (J). Please contact Arcol for lower requirements
Temperature coefficients: ≤ 1R 100ppm, 1-50R 50ppm, ≥ 50R 25ppm
Insulation resistance (dry): 10,000 MΩ minimum
Power derating: At high ambient temperatures dissipation derates linearly to zero at 200°C
Low inductive (NHS):
NHS ohmic value: Max value for NHSW600 is 10K ohms

Electrical Specifications

<table>
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<tr>
<th>Power rating on standard heatsink @ 25C</th>
<th>Resistance range ohms</th>
<th>Limiting element voltage DC/AC rms</th>
<th>Voltage proof AC peak</th>
<th>Stability ▲ R % per 1000hrs</th>
<th>Approx weight gms</th>
<th>Typical surface temp. rise °C/W std. heat sink mounted</th>
<th>Standard heatsink (aluminium) RTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 watts</td>
<td>R1 - 30K</td>
<td>2200</td>
<td>3000</td>
<td>3%</td>
<td>625</td>
<td>0.19 °C/W</td>
<td>0.04 °C/W</td>
</tr>
</tbody>
</table>

Power Rating

600 watts mounted on 3750cm² x 3mm aluminium plate with 25°C water flowing at a rate of 2 litres per minute.

Ordering Procedure

Standard Resistor To specify standard: Series, Watts, Ohmic Value, Tolerance Code, e.g.: HSW600 10R J
Non Inductive Resistor To specify add N, e.g.: NHSW600 2R2 J

The information contained herein does not form part of a contract and is subject to change without notice. Arcol operate a policy of continual product development, therefore, 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 in doubt please ask Arcol.
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**Dimensions (mm)**

Standard water pipe 12.7 OD in beaded copper.
PTFE insulated flexible lead - 19/0.45.

* SURFACE TEMPERATURE MEASURING POINT

45.0 MAX

5.0±0.2

20.0±0.2

57.2±0.3

72.0±0.5

89.0±0.3

114.0±0.1

190.0 MAX

12.5±0.4

5.1±0.25