

FPA350 350W Thick Film Heatsink Resistors



350 Watt resistor designed for various applications including traction; power supplies; speed drives; power supplies; control devices and robotics.



- Power Rating 350 watts at 85°C bottom case temp
 - Value Range R2 to 1M
 - Tolerance Options $\pm 5\%$ or $\pm 10\%$ standard
 - TCR Options $\pm 500\text{ppm}/^\circ\text{C}$ ($0.1 \Omega \leq 0.12 \Omega$) Standard
 - $\pm 150\text{ppm}/^\circ\text{C}$ ($>0.12 \Omega \leq 1\text{M} \Omega$) Standard
 - Maximum Voltage 5000Vdc
 - Dielectric Strength 7k Vrms / 50 Hz / 500 VA test time 1 min.
- Non-inductive design, high insulation & partial discharge performance
RoHS Compliant.

Characteristics

| | | | |
|---------------------------|---|------------------------------|---|
| Power rating | 350W at 85°C bottom case temp | Partial discharge | 4kV rms. <10pC to IEC60270 |
| Resistance range | R2 to 1M | Typical inductance | $\geq 80\text{nH}$ measured at 10Hz |
| Tolerance | $\pm 10\%$ (K) $\pm 5\%$ (J), $\geq 3R \pm 1\%$ (F) | Parallel capacitance | $\geq 40\text{pF}$ measured at 10Hz |
| Temperature coefficient | $\pm 500\text{ppm}/^\circ\text{C}$ ($0.1 \Omega \leq 0.12 \Omega$) $\pm 150\text{ppm}/^\circ\text{C}$ ($>0.12 \Omega \leq 1\text{M} \Omega$) | Capacitance / mass | $\geq 110\text{pF}$ measured at 10Hz |
| Maximum working voltage | 5000 Vdc rms (50 Hz) | Short term overload | 600W at 70°C for 10 sec |
| Working temperature range | -55°C to +150°C | Mounting screw / max. torque | M5 standard , 1.8Nm |
| Dielectric strength | 7kV rms/50Hz/500VA test time 1 min | Contacts | (M4 on special request connection screw thread max 7mm) |
| Creepage distance | > 42mm std (higher on request) | | |

Test Specifications

| | |
|--|-----------------------|
| Humidity 56 days / 40°C / Steady state 95% | $\Delta R \pm 0.25\%$ |
| Temperature -55 / +125 / 5 cycles | $\Delta R \pm 0.20\%$ |
| Shock 40g / 4,000 times | $\Delta R \pm 0.25\%$ |
| Vibrations 2-500Hz / 10g | $\Delta R \pm 0.25\%$ |
| Load life 3000 cycle Pn 30 min. on / 30 min. off | $\Delta R \pm 0.40\%$ |

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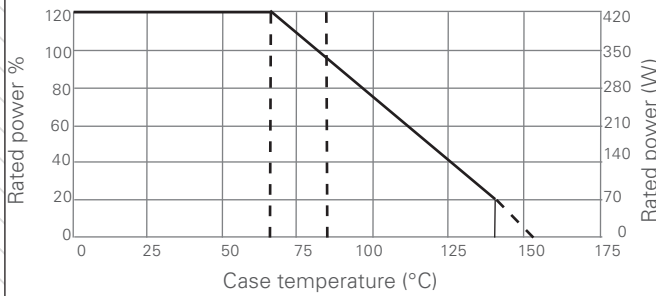
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It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask ARCOL.

FPA600 600W Thick Film Heatsink Resistors



Derating Curve



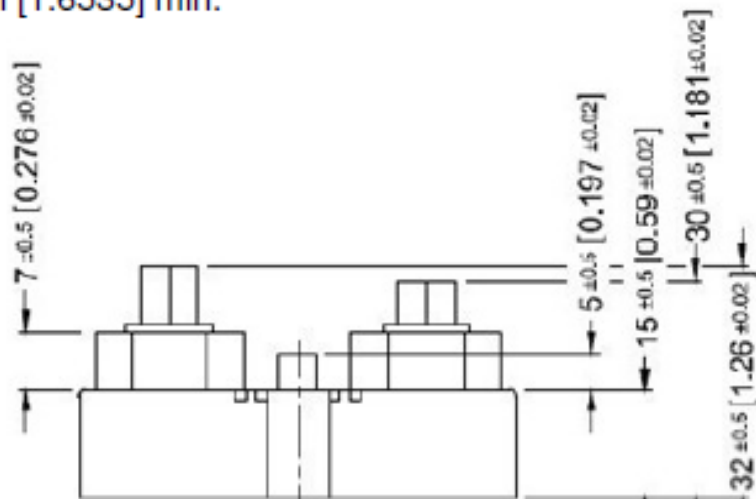
Ordering Procedure

Standard resistor: Specify series, watts, ohmic value, tolerance code. e.g FPA350 10R K

Dimensions

Air distance: 14mm [0.5512] min.
Creeping distance: 42mm [1.6535] min.

Terminal height 30/32
Standard



Other terminal dimensions available, contact ARCOL for more information

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