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 ±5% or ±10% standard
- TCR Options ±500ppm/ °C (0.1 Ω ≤0.12 Ω) Standard
- ±150ppm/ °C (>0.12 Ω≤1M Ω) 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	≥80nH measured at 10Hz
Tolerance	±10%(K) ±5%(J),≥ 3R ±1%(F)	Parallel capacitance	≥40pF measured at 10Hz
Temperature coefficient	±500ppm/ °C (0.1 Ω ≤0.12 Ω)	Capacitance / mass	≥110pF measured at 10Hz
	±150ppm/ °C (>0.12 Ω≤1M Ω)	Short term overload	600W at 70°C for 10 sec
Maximum working voltage	5000 Vdc rms (50 Hz)	Mounting screw / max. torque	M5 standard , 1.8Nm
Working temperature range	-55°C to +150°C	Contacts	(M4 on special request
Dielectric strength	7kV rms/50Hz/500VA test time 1 min		connection screw thread max
Creepage distance	> 42mm std (higher on request)		7mm)

Test Specifications

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

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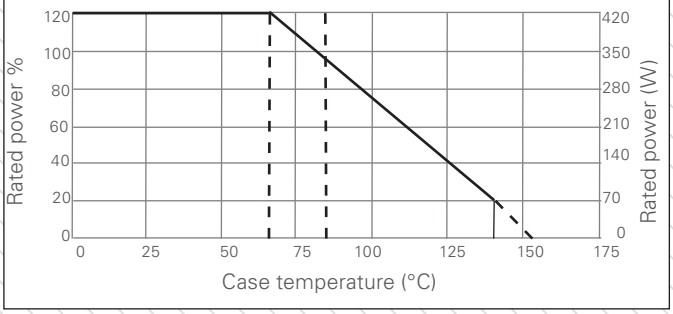
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It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask ARCOL.

FPA600 600W Thick Film Heatsink Resistors

Derating Curve



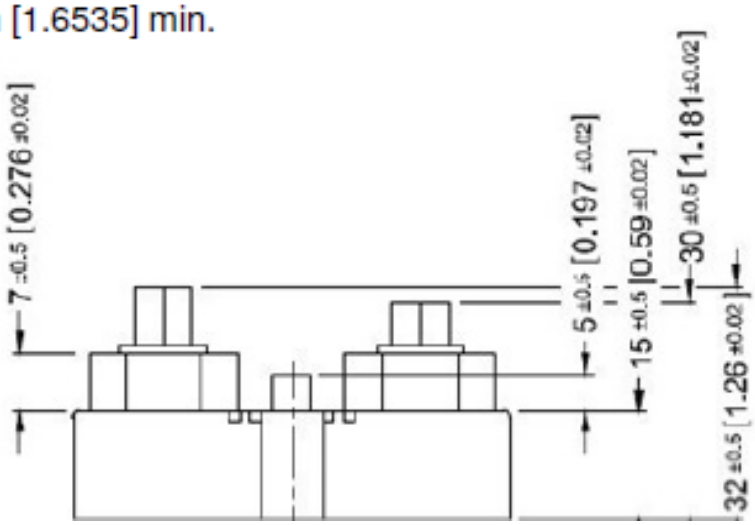
Ordering Procedure

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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