

FPA600 600W Thick Film Heatsink Resistors



600 Watt resistor designed for various applications including power transmission, traction, variable speed drives, power supplies, robotics, motor control and power control devices. Suitable for liquid or air cooled heat sink systems



- Power Dissipation 600 watts at max 70°C bottom case temp
- Value Range R5 to 100K
- Tolerance Options $\pm 5\%$ or $\pm 10\%$
- TCR Options $\pm 150\text{ppm}/^\circ\text{C}$
- Maximum Voltage 5000Vdc
- Dielectric Strength 12000Vdc
- Special Features Partial discharge 4Kvrms <10 pc up to 7kV. Please consult with company regarding application areas. Vibration proof. Very low inductance
. RoHS Compliant.

Characteristics

Power rating	600W at 70°C effective ambient	Partial discharge	4kV rms. <10pC
Resistance range	R5 to 1M	Voltage proof test	7kV rms.
Tolerance	$\pm 1\%$ (F) - $\pm 10\%$ (K) - $\pm 5\%$ (J) Std	Series inductance	<100nH measured at 100kHz
Temperature coefficient	$\pm 100\text{ppm}/^\circ\text{C}$ (25°C - 100°C)	Parallel capacitance	40pF
Maximum working voltage	5kV rms	Capacitance / mass	100pF
Working temperature range	-55°C to +150°C	Short term overload	1kW - 10 sec.
Dielectric strength	6kV/50Hz test time 10sec.	Thermal resistance	Rth 0.115°C/W
Creepage distance	40mm	Mounting screw / max. torque	M4, normal / 1.8Nm
		Contacts / max. torque	M5, normal / 2Nm

Specifications

Short time overload	1,000W / 10 sec 0.4%
Humidity 56 days / 40°C / Steady state 95%	$\Delta R \pm 0.25\%$
Temperature -55 / +125 / 5 cycling 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 Pn 30 min. on / 1,000cyl 30 min. off	$\Delta R \pm 0.40\%$

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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.

