

FPA 350

350W Thick Film Heatsink Resistors

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

FEATURES

- 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 5000 Vdc
- Dielectric Strength 7k Vrms/50 Hz/500 VA test time 1 min.
- RoHS Compliant Non-inductive design, high insulation & partial discharge performance



CHARACTERISTICS

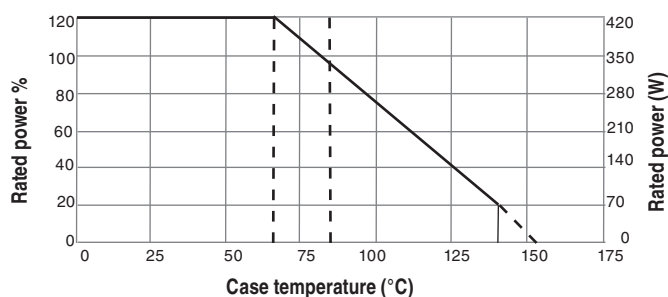
Power rating	350W at 85°C bottom case temp
Resistance range	R2 to M1
Tolerance	$\pm 10\%$ (K) $\pm 5\%$ (J) $\geq 3\text{R}$ $\pm 1\%$ (F)
Tempeture coefficient	$\pm 500\text{ppm}/^\circ\text{C}$ ($0.1\Omega \leq 0.12\Omega$)
Tempeture coefficient	$\pm 150\text{ppm}/^\circ\text{C}$ ($>0.12\Omega \leq 1\text{M}\Omega$)
Maximum working voltage	5000 Vdc rms (50 Hz)
Dielectric strength	7kV rms/50Hz/500VA test time 1 min
Creepage distance	> 42mm std (higher on request)

Partial discharge	4kV rms. <10pC to IEC60270
Typical inductance	$\geq 80\text{nH}$ measured at 10Hz
Parallel capacitance	$\geq 40\text{pF}$ measured at 10Hz
Capacitance/mass	$\geq 110\text{pF}$ measured at 10Hz
Short term overload	600W at 70°C for 10 sec
Mounting screw/max torque	M5 standard, 1.8Nm
Contacts	(M4 on special request connection screw thread max 7mm)

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	$\Delta R \pm 0.40\%$

Derating Curve



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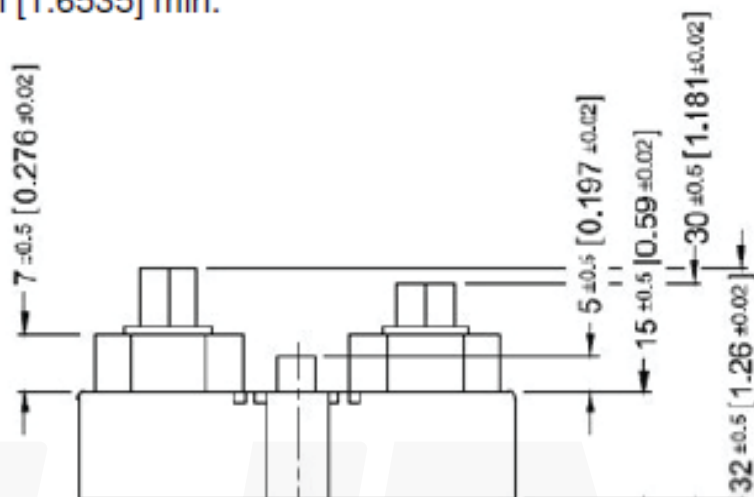
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DIMENSIONS

Air distance: 14mm [0.5512] min.

Creeping distance: 42mm [1.6535] min.

Terminal height 30/32
Standard



Other terminal dimensions available, contact OHMITE for more information

ORDERING INFORMATION

Standard resistor:

Specify series, watts, ohmic value, tolerance code.

eg:

FPA350 10R K