FPA250 Thick Film Power Resistors

Due to a Non-Inductive design these elements are ideally suited for high frequency and pulse load applications.

- Non Inductive Performance for HF Applications
- Power Applications 100W to 250W
- Very Good Power/Volume Ratio
- RoHS Compliant

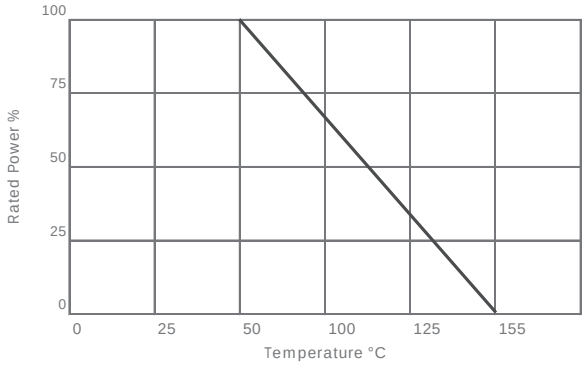
Characteristics

Power rating:	250W (heatsink at 50°C)	Typical inductance:	40nH typical
Resistance range:	From 1R to 2M E6 Series	Parallel capacitance:	≤40pF
Tolerance (Code):	Standard J (±5%)	Capacitance/Mass:	≤110pF
	Also available F (±1%) on request	Heatsink flatness:	0.05mm max
Temperature coefficient:	100ppm/°C	Heatsink surface finish:	≤6.4 µm max
Max working voltage:	5k Vdc	Thermal grease:	Required
Working temperature range:	-55°C to +155°C	Max torque for contacts:	2Nm (static)
Dielectric strength:	7kV	Max torque for mounting:	1.8Nm (static)
Insulation resistance:	≥ 10Gohm at 500V		
Creepage distance:	42mm min		

Ordering Procedure

Standard Resistor Specify Series, Watts, Ohmic Value, Tolerance Code
e.g.: FPA250 10R J

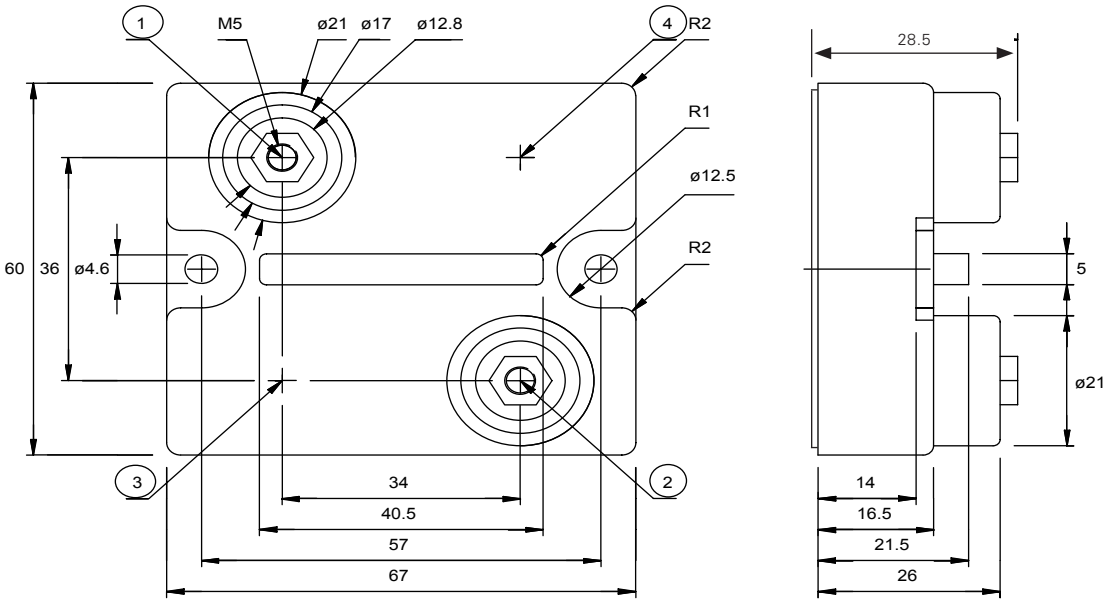
Derating Curve



ARCOL UK Limited,
Threemilestone Ind. Estate,
Truro, Cornwall, TR4 9LG, UK.
T +44 (0) 1872 277431
F +44 (0) 1872 222002
E sales@arcolresistors.com

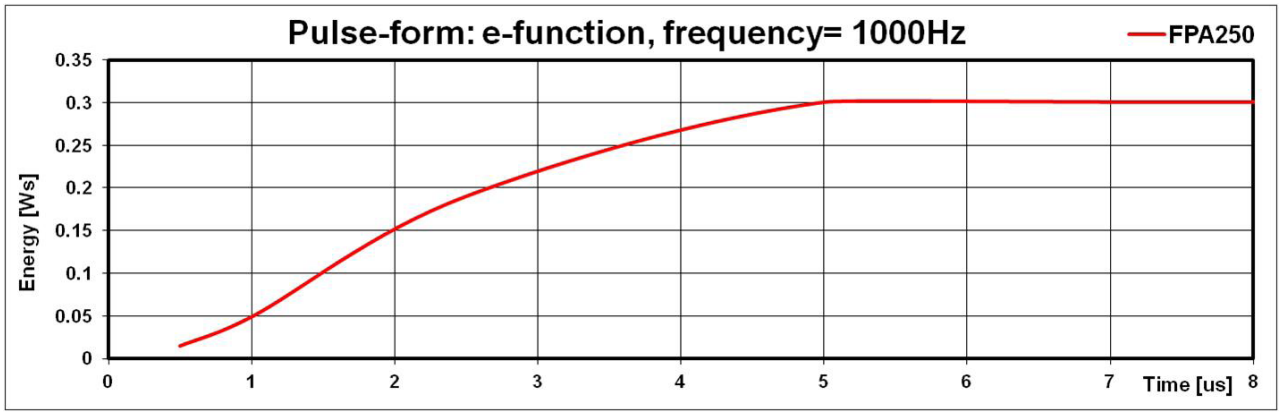
www.arcolresistors.com

Dimensions (mm)



Pulse rating

For pulse duration >5.0 µS, and at maximum allowed voltage levels, the maximum peak energy of 0.3J is limited by the average power rating of 250W. For pulse duration times <5.0 µS it has not been possible to reliably establish maximum energy failure point, although it is known that the pulse capability is higher than the curve shown in the graph below.



Whilst these parts are designed to operate in high frequency circuits, where dv/dt is faster than 250V/µS, it is recommended that the resistor is tested under worst case application conditions to ensure that unknown attribute of the application waveform are completely accounted for.

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