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

250W (heatsink at 50°C) ≤10pC / 5000Vac Power rating: Partial discharge: Resistance range: From 1R to 2M E6 Series Typical inductance: 40nH typical Tolerance (Code): Standard J (±5%) and K (±10%) Parallel capacitance: 40pF

Also available F (±1%) on request Capacitance/Mass: ≤120pF

Temperature coefficient: 100ppm/°C Overload: 4Pn x 10 sec 5000Vac Thermal resistance: 0.15°C/W Max working voltage:

-55°C to +155°C Heatsink flatness: Working temperature range: 0.05mm max Dielectric strength: 7000Vac Heatsink surface finish: 6.3 µm max

Insulation resistance: ≥ 10Gohm at 500V Thermal grease: Required Creepage distance: 42mm min Max torque for contacts: 2Nm (static)

Max torque for mounting:

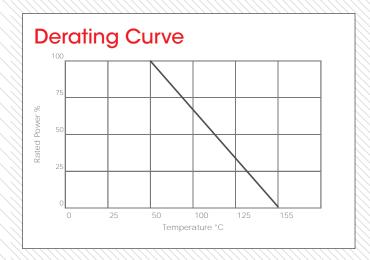
Ordering Procedure

Standard Resistor Specify Series, Watts, Ohmic Value,

14mm

Tolerance Code e.g.: FPA250 10R J

Air gap distance



1.8Nm (static)

ARCOL UK Limited,

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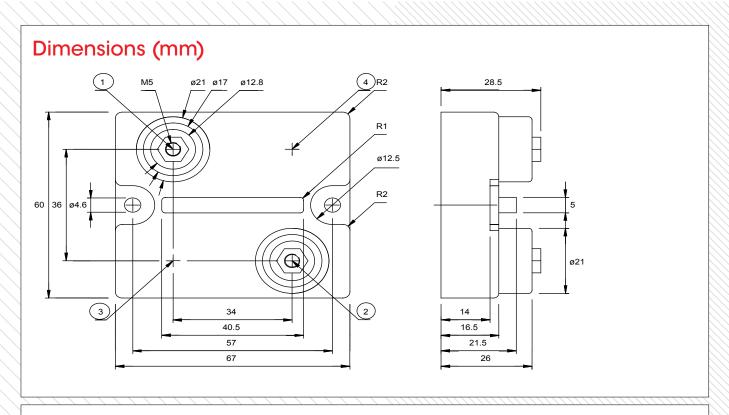
www.arcolresistors.com

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.

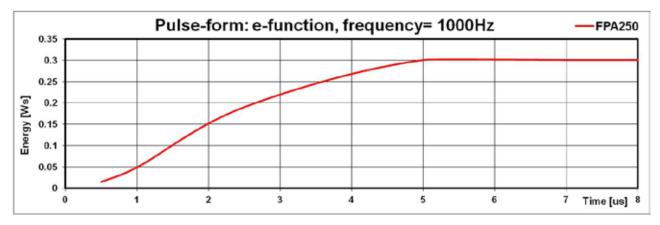
8/12.14 Page 1 of 2

FPA250 Thick Film Power Resistors GRCOL



Pulse rating

For pulse duration $>5.0 \,\mu\text{S}$, 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 $<5.0 \,\mu\text{S}$ 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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Page 2 of 2 8/12.14

Mouser Electronics

Authorized Distributor

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Ohmite:

FPA250 10K J FPA250 50R J FPA250 4R J FPA250 10R J FPA250 1R J FPA250 4R7 J FPA250 330R J FPA250 1KR J FPA250 22R J FPA250 2R2 J FPA250 5R J FPA250 100R J FPA250 47R J FPA250-8R0 J FPA250 82R J FPA250 68RJ FPA250 50K J