## 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:

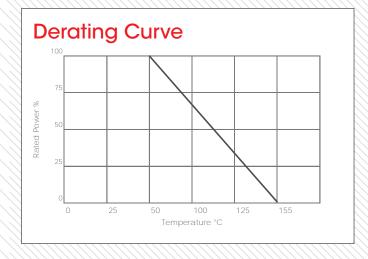
-55°C to +155°C Heatsink flatness: Working temperature range: 0.05mm max Dielectric strength: 7000Vac Heatsink surface finish: 6.3 µm max

Insulation resistance: ≥ 10Gohm at 500V Thermal grease: Required Creepage distance: 42mm min Max torque for contacts: 2Nm (static) Air gap distance 14mm Max torque for mounting: 1.8Nm (static)

### **Ordering Procedure**

Standard Resistor Specify Series, Watts, Ohmic Value,

Tolerance Code e.g.: FPA250 10R J



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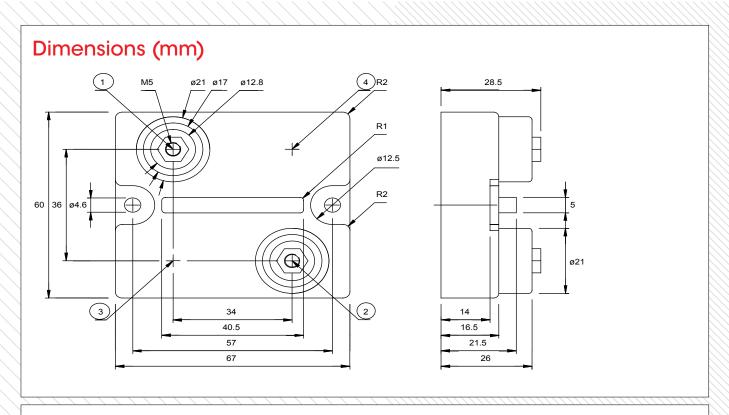
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It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask Arcol.

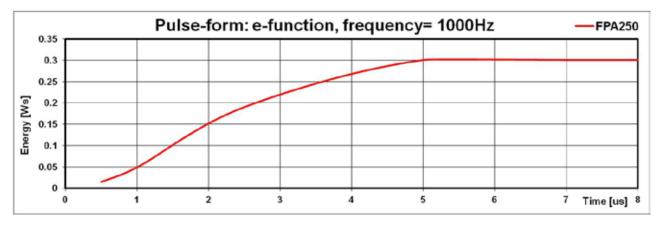
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### **Pulse rating**

For pulse duration >5.0  $\mu$ 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  $\mu$ 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/ $\mu$ S, 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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