

Due to a Non-Inductive design these elements are ideally suited for high frequency and pulse load applications. the FPA250 is available connected as 2 terminals or 4 terminals, in parallel or series.

- Non Inductive Performance for HF Applications
- Power Applications 100W to 600W
- Very Good Power/Volume Ratio
- RoHS Compliant



## Characteristics

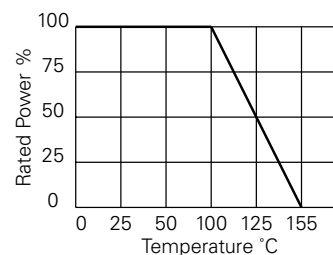
Power rating:	250W (heatsink at 100°C)	Partial discharge:	≤10pC / 5000Vac
Resistance range:	From 1R to 2M ohm E6 Series	Self inductance:	40nH
Tolerance (Code):	Standard J (±5%) and K (±10%) Also available F (±1%) on request	Parallel capacitance:	40pF
Temperature coefficient:	100ppm/°C	Capacitance/Mass:	≤120pF
Max working voltage:	5000Vac	Overload:	4Pn x 10 sec
Working temperature range:	-55°C to +155°C	Thermal resistance:	0.15°C/W
Dielectric strength:	7000Vac	Heatsink flatness:	0.05mm max
Insulation resistance:	≥ 10Gohm at 500V	Heatsink surface finish:	6.3 µm max
Creepage distance:	40mm	Thermal grease:	Required
Air gap distance:	14mm	Max torque for contacts:	2Nm (static)
		Max torque for mounting:	1.8Nm (static)

## Ordering Procedure

Standard (Version 1) Resistor Specify Series, Watts, Ohmic Value, Tolerance Code, e.g.: FPA250 10R J

Versions 2, 3, 4 or 5 Specify Series, Watts, Ohmic Value or Values, Tolerance Code and then Version Number, e.g.: FPA250 10R 10R J version 4.  
Refer to versions available on page 2.

## Derating Curve



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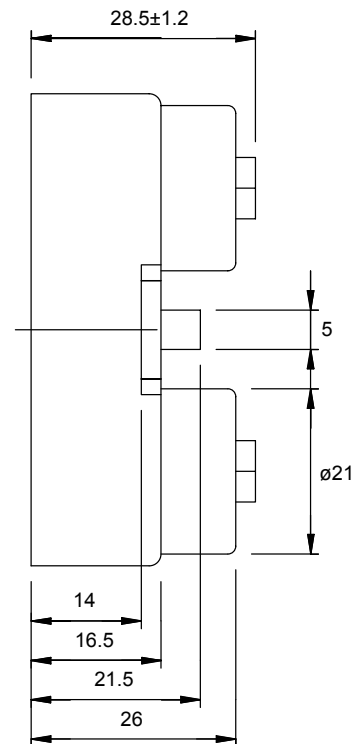
[www.arcolresistors.com](http://www.arcolresistors.com)

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.

Technical drawing of a square plate with the following dimensions and features:

- Overall width: 67
- Overall height: 60
- Inner width (between vertical centerlines): 57
- Inner height (between horizontal centerlines): 36
- Distance from left edge to vertical centerline: 34
- Distance from right edge to vertical centerline: 40.5
- Distance from top edge to horizontal centerline: 36
- Distance from bottom edge to horizontal centerline: 36
- Top-left corner radius: R1
- Top-right corner radius: R2
- Bottom-left corner radius: R2
- Bottom-right corner radius: R1
- Top-left hole: M5,  $\phi 21$ ,  $\phi 17$ ,  $\phi 12.8$
- Top-right hole:  $\phi 12.5$
- Bottom-left hole:  $\phi 4.6$
- Bottom-right hole:  $\phi 4.6$
- Central horizontal slot: 34 wide, 40.5 high



The image contains five diagrams of mechanical components, each with a circled number above it:

- Diagram 1:** A rectangular block with two ports on the left (labeled 1 and 2) and two ports on the right (labeled 2 and 1).
- Diagram 2:** A rectangular block with two ports on the left (labeled 1 and 2) and two ports on the right (labeled 4 and 1).
- Diagram 3:** A rectangular block with two ports on the left (labeled 1 and 2) and two ports on the right (labeled 2 and 1). Below the left side, there are two additional ports labeled 3 and 4.
- Diagram 4:** A rectangular block with two ports on the left (labeled 1 and 2) and two ports on the right (labeled 2 and 1).
- Diagram 5:** A rectangular block with two ports on the left (labeled 1 and 2) and two ports on the right (labeled 2 and 1). Below the left side, there are two additional ports labeled 3 and 4.