

Due to a Non-Inductive design these elements are ideally suited for high frequency and pulse load applications. The FPA100 is available connected as 2 terminals or 4 terminals, in parallel or series.

- Isotop/SOT227 Semiconductor Style
- 100 Watts dissipation in a small footprint
- Very low inductance
- Direct heatsink mounting
- RoHS Compliant



## Characteristics

Ohmic value range:	E24, contact ARCOL for values outside this series
Tolerance (Code):	Standard J ( $\pm 5\%$ ) and K ( $\pm 10\%$ ). Also available F ( $\pm 1\%$ ) on request
TCR:	Standard 100ppm (at $+105^\circ\text{C}$ ref to $+25^\circ\text{C}$ ). Also available 50ppm and 250ppm on request
Power rating at $25^\circ\text{C}$ :	100W
Max working voltage:	1kV rms
Resistance range:	1R to 5M
Voltage proof:	Dielectric strength 4kV
Thermal resistance to cooling plate:	$R < 0.35^\circ\text{C/W}$
Partial discharge:	Up to $\geq 2\text{kV rms} / 80\text{ pC}$
Capacitance/mass:	40pF
Working temp range:	$-55^\circ\text{C}$ to $+155^\circ\text{C}$
Max. torque for contacts (static):	1.3Nm
Max. torque for base plate (static):	1.5Nm
Inductance:	$\leq 50\text{ nH}$

## Ordering Procedure

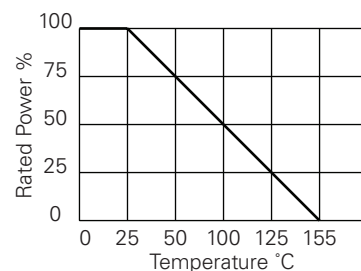
Standard (Version 1) Resistor Specify Series, Watts, Ohmic Value, Tolerance Code, e.g.: FPA100 2R2 J

Versions 2, 3, 4 or 5 Specify Series, Watts, Ohmic Value or Values, Tolerance Code and then Version Number, e.g.: FPA100 2R2 2R2 J version 4.

Refer to versions available on page 2.

TCR as standard 100ppm For 50ppm or 250ppm, please specify at the end of the part number e.g.: FPA100 100R J 50ppm

## Derating Curve



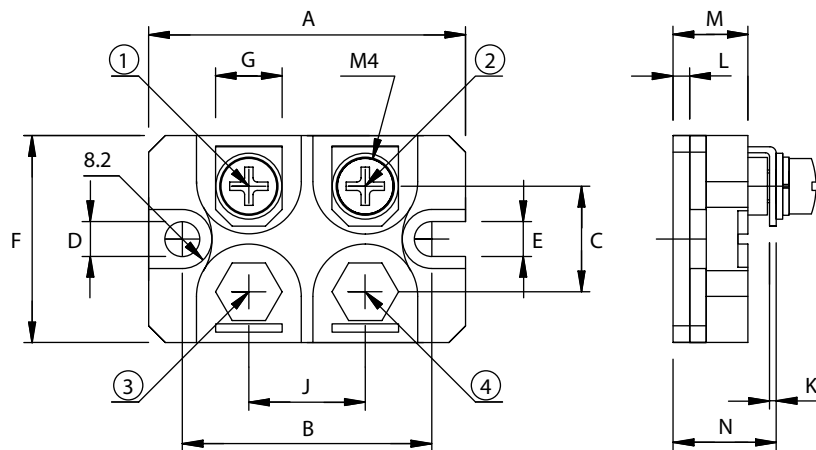
ARCOL UK Limited,  
Threemilestone Ind. Estate,  
Truro, Cornwall, TR4 9LG, UK.  
T +44 (0) 1872 277431  
F +44 (0) 1872 222002  
E sales@arcolresistors.com

[www.arcolresistors.com](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.

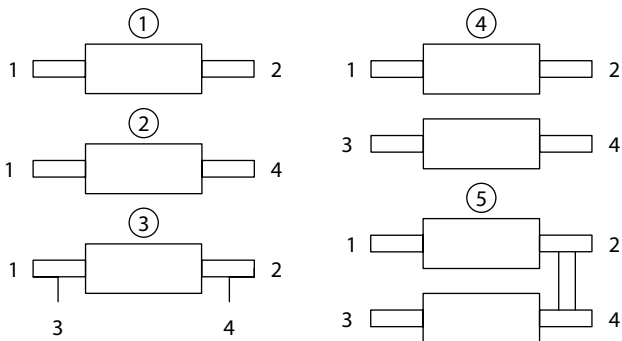
It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask Arcol.

## Dimensions (mm)



	A	B	C	D	E	F
Min	38.0	30.1	12.6	4.1	4.1	24.4
Max	38.2	30.3	12.8	N/A	4.3	26.4
	G	J	K	L	M	N
Min	7.8	14.9	0.75	1.95	8.9	11.8
Max	8.2	15.0	0.85	2.05	9.1	12.2

## Versions Available



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Ohmite:](#)

[FPA100 75K J](#)