

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°C :	100W-200W
Max working voltage:	1kV rms
Resistance range:	2R to 20Meg
Voltage proof:	Dielectric strength 4kV
Protection class:	IEC950/CSA22.2 950/M-89 and EN 60950.88:2
Thermal resistance to cooling plate:	$R < 0.35^{\circ}\text{C}/\text{W}$
Partial discharge:	Up to $\geq 2\text{kV rms} / 80 \text{ pC}$
Capacitance/mass:	45pF
Working temp range:	-55°C to $+155^{\circ}\text{C}$
Max. torque for contacts (static):	1.3Nm
Max. torque for base plate (static):	1.5Nm

Ordering Procedure

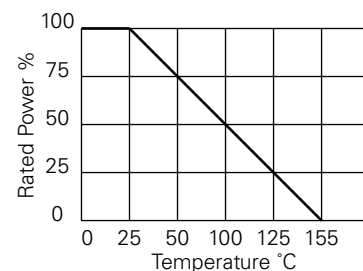
Standard (Version 1) Resistor Specify Series, Watts, Ohmic Value, Tolerance Code, e.g.: FPA100 2R2 J

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



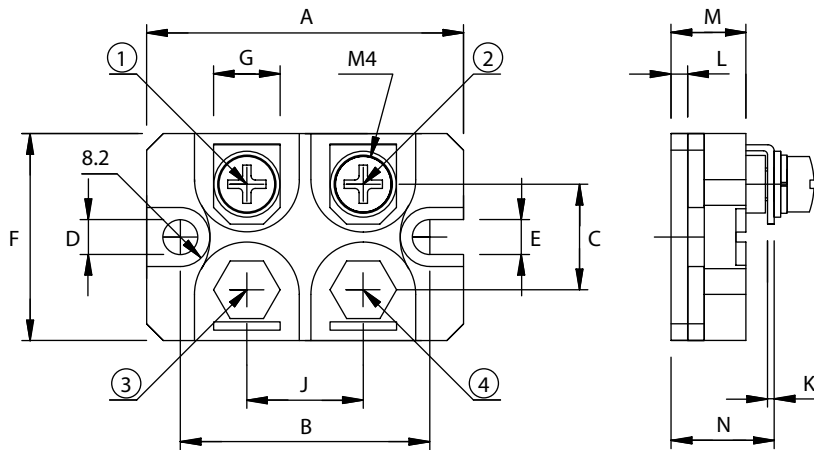
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The information contained herein does not form part of a contract and is subject to change without notice. Arcol operate a policy of continual product development, therefore, specifications may change.

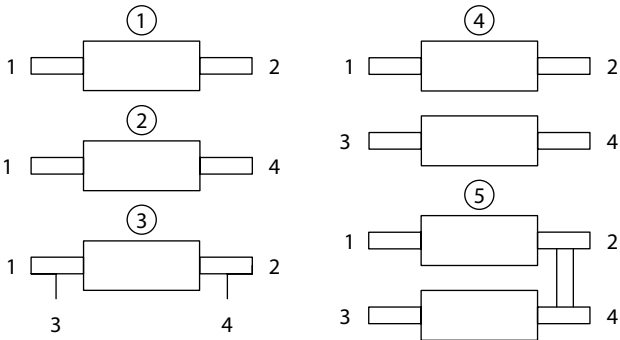
It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask Arcol.

Dimensions (mm)



	A	B	C	D	E	F
Min	38.0	30.1	12.6	4.0	4.1	24.4
Max	38.2	30.3	12.8	N/A	4.3	25.4
	G	J	K	L	M	N
Min	7.8	14.9	0.75	1.95	8.9	11.8
Max	8.2	15.1	0.85	2.05	9.1	12.2

Versions Available



Mouser Electronics

Authorized Distributor

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

Ohmite:

[FPA100 33R J](#) [FPA100 2K2 J](#) [FPA100 8R0 J](#) [FPA100 10K J](#) [FPA100 3K3 J](#) [FPA100 150R J](#) [FPA100 100R J](#)
[FPA100 680R J](#) [FPA100 6R8 J](#) [FPA100 10R J](#) [FPA100 47R J](#) [FPA100 50R J](#) [FPA100 22R J](#) [FPA100 16R J](#)
[FPA100 68R J](#) [FPA100 15R J](#) [FPA100 1K5 J](#) [FPA100 4K7 J](#) [FPA100 4R7 J](#) [FPA100 4R0 J](#) [FPA100 6K8 J](#) [FPA100](#)
[1K J](#) [FPA100 2R0 J](#) [FPA100 220R J](#) [FPA100 2R2 J](#) [FPA100 470R J](#) [FPA100 22K J](#) [FPA100 300R J](#) [FPA100 3R3 J](#)
[FPA100 330R J](#) [FPA100 2R5 J](#) [FPA100 4R7 4R7 J](#)