

Thick film resistors series FPA 100

Data sheet

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

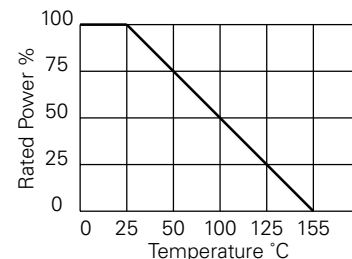
Standard (Version 1) Resistor Specify Series, Watts, Ohmic Value, Tolerance Code, e.g.: FPA100 2R2 J

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

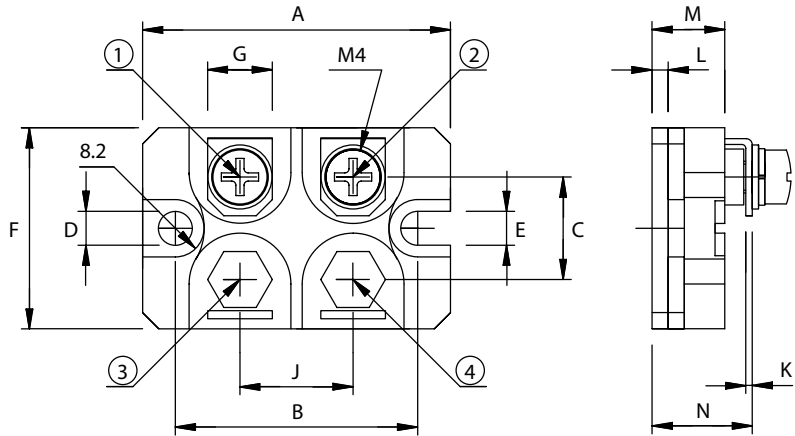
Derating Curve



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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

