BPF

High-Power Planar Resistors

Features

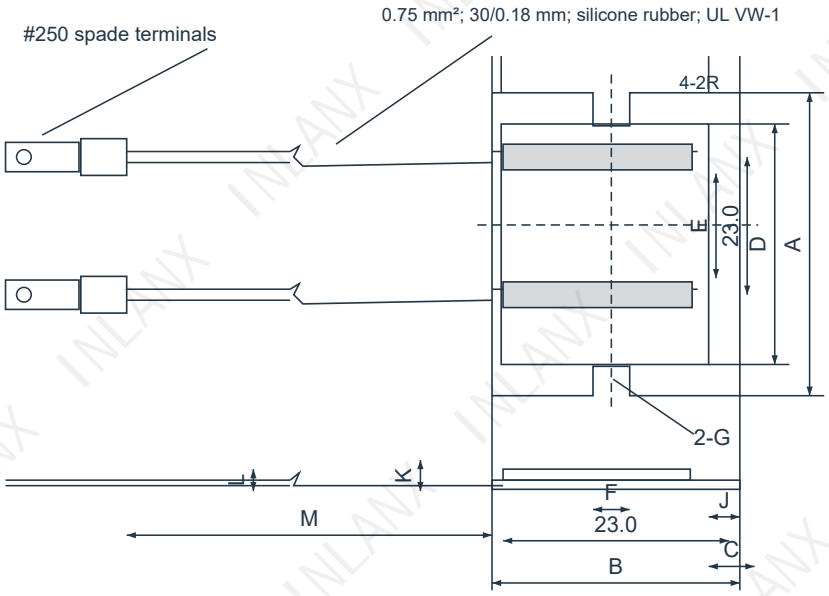
- Small size and high power
- Thick-film technology; easy mounting
- Very low inductance for high-frequency applications
- High power density: 300 W

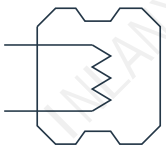


Applications

Suitable for snubber, gate and damping resistors in pulse generators and high-frequency amplifiers.

Dimensions and schematic





BPF300

Symbol	A	B	C	D	E	F	G	J	K	L	M
mm	38	25	4.0	32	14	4.2	2-2.1R	1.5	2.5	Ø2.1	435.0
Tolerance	±0.5	±0.5	±0.5	±0.2	±0.5	±0.2	—	±0.2	±0.5	—	±10

Cable: 0.75 mm², 30/0.18 mm silicone-rubber insulated wire, UL VW-1. #250 spade terminals. Fixed 23.0 mm and 4-2R are retained from the drawing.

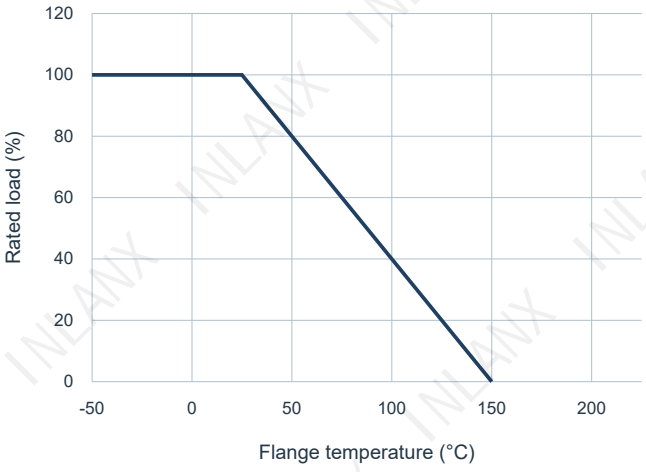
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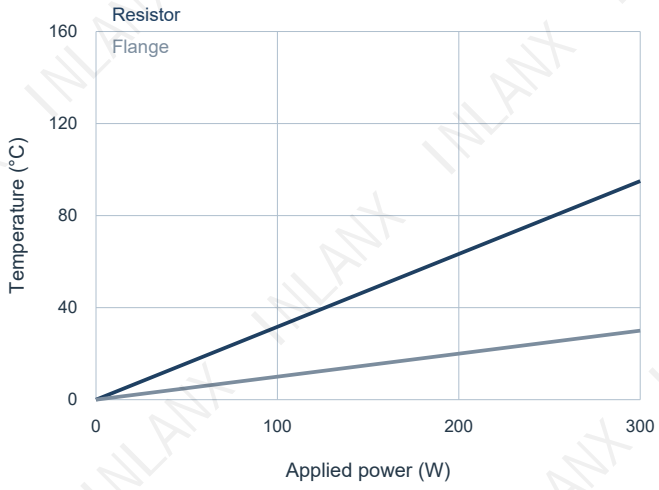
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Technical Specifications

Parameter	Specification
Rated power	300 W (temperature at centre of copper substrate)
Maximum working voltage	500 V DC
Resistance range	0.1 Ω to 51 kΩ
TCR	100 ppm/°C
Tolerance	10%, 5%, 1%
Operating temperature	-55°C to +155°C
Insulating voltage	>2000 V
Load life	1000 h at rated power; ΔR<±2%
Soldering heat	260°C, 10 s; ΔR<±0.2%
Solderability	235°C, 5 s; ΔR<±0.2%
Insulation resistance	>10 GΩ

Derating and temperature rise





Temperature-rise graph: heat sink 0.1°C/W.

Ordering example

BPF300 – 100R – J | K: 10% J: 5% F: 1%