Ultra-High Precision Resistor

Series SHP

Overall stability ±5 ppm/°C from +25°C to +65°C (incl. VCR & TCR)

EBG RESISTORS

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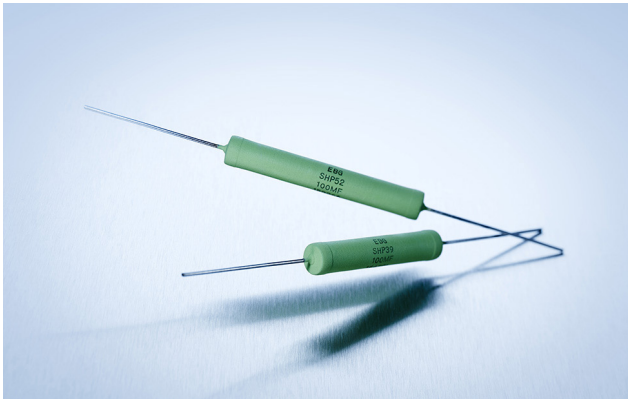
We developed new material combinations and processing methods which make it possible to achieve a TCR (thermal coefficient of resistance) of up to ±5 ppm while maintaining the minimal VCR (voltage coefficient of resistance).

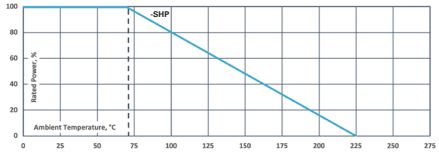


Features

- up to 10 kV operating voltage
- Non-Inductive design
- ROHS compliant

Technical Specifications

Resistance value	100 MΩ ≤ 250 MΩ (other values on special request)
Resistance tolerance	±1 % standard (lower on special request for limited ohmic values)
Temperature coefficient	±5 ppm/°C from +25°C to +65°C in 10 degree steps (incl. VCR & TCR) referenced to 25°C
Maximum working voltage	10 kV DC
Dielectric strength	≤ 10 kV DC based on the coating
Insulation resistance	10 GΩ min. at 1,000 V DC
Power rating	up to 1 W
Load life	1,000 hours at rated power at 70°C, ΔR 0.20 % max.
Load life stability	0.20 % per 1,000 hours at 70°C
Moisture resistance	MIL-Std-202, method 106, ΔR 0.4 % max.
Thermal shock	MIL-Std-202, method 107, Cond. A, ΔR 0.20 % max.
Encapsulation	**standard coating: silicone conformal** we recommend 2xpolyimide coating for use in oil and potted applications (ask for details)
Lead material	OFHC copper, tin-plated
Weight	depending on model no. (ask for details)



How to make a request

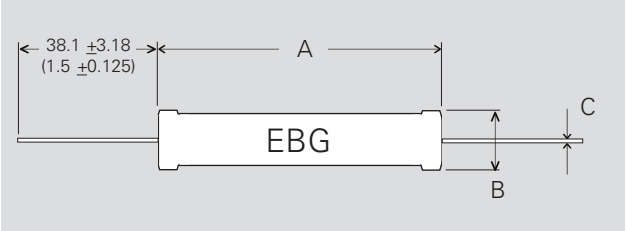
Model no._Ohmic value_Tolerance

For example:
SHP-52 150M 1%

Model Specifications

Model no.	Wattage	Max. kV	Resistance values		Dimensions in millimeters (inches)		
			Min. Ω	Max. Ω	A ±0.50 ±0.02	B ±0.50 ±0.02	C ±0.05 ±0.002
SHP-39	0.6	8	100 M	250 M	39.50 (1.555)	8.20 (0.323)	1.00 (0.040)
SHP-52	1	10	100 M	250 M	52.10 (2.051)	8.20 (0.323)	1.00 (0.040)
SHP-78	2.25	15	100 M	250 M	77.60 (3.055)	8.20 (0.323)	1.00 (0.040)

Dimensions in mm [inches]



The above spec. sheet features our standard products. For further options please contact our local EBG representative or contact us directly.

Legal Disclaimer Notice

Disclaimer

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