Series CSR

High Energy Resistor, PCB mounting

EBG RESISTORS

A Miba Group Company

High energy pulse capability, suitable for electrical transmission, traction, pulse power supply, inductive heating, and other applications.

Features

- 100 % active materials
- Low inductance, suitable for HF applications
- Compact size
- PCB mounting
- Epoxy coating with good humidity resistance
- ROHS compliant
- Materials in accordance with UL 94 V-0

Technical Specifications

Resistance value	see model specifications
Resistance tolerance	±20 % standard (±10 % on special request)
Temperature coefficient	-500 ppm/°C to -1500 ppm/°C
Linear expansion coefficient	~5 ppm/°C to 15 ppm/°C
Long term working temperature	up to 150°C (slight color change is normal, without functional influence)
Max. pulse voltage (kV) (1.2 / 50 µs)	see model specifications
Max. AC working voltage (50 Hz / rms)	see model specifications; t = insertion time (ms)
Thermal time constant	T (s) = Emax (25°C) / Wmax (25°C), cooling t ≥ 4 T
Contact	4 terminal spring contact for stable PCB mounting, the PCB hole diameter of ~2-3 mm is recommended. Mild solder material with melting point of 230°C or less is suggested
Terminals	gold plated brass material (other terminal options available on request)
Weight	depending on model no. (ask for details)

How to make a request

Model no._Ohmic value_Tolerance

For example:
CSR-29 100R 20%

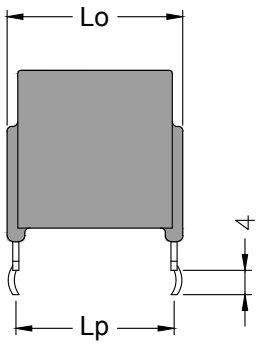
Applicable Standard

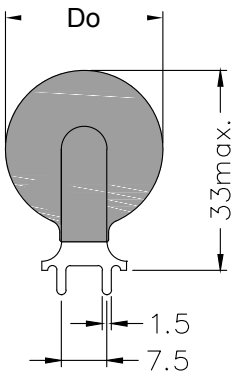
IEC60115-1 : 2001

Model Specifications

Model no.	Rated Power @25°C (W)	Max. Energy @25°C (J)	Resistance values		Dimensions in millimeters			Max. pulse voltage	Max. AC working voltage
			Min. Ω	Max. Ω	Lo (max)	Lp	Do (max)	(kV) (1.2 / 50 µs)	(50 Hz / rms)
CSR-27	3.5	1000	2R	500R	18	14.5 ± 0.5	21	0.79R x (-1+√(1+29/R))	1.3 x $(2.0R/t)^{0.3}$
CSR-28	5	1775	2R	700R	29	25.5 ± 0.5	21	0.79R x (-1+√(1+52/R))	2.4 x $(1.1R/t)^{0.3}$
CSR-29	6.5	2950	1R	500R	29	25.5 ± 0.5	26	1.26R x (-1+√(1+33/R))	2.4 x $(1.8R/t)^{0.3}$

Dimensions in mm





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

sales@ebg-resistors.com · sales@ebg-us.com

Legal Disclaimer Notice

Disclaimer

EBG RESISTORS

A Miba Group Company

The given statements and information herein are recommendations for the use of our products and are based on our experience in combination with applicable technical standards.
They are for guidance only and do not represent any assurance of characteristics or warranty commitments for the products or their suitability for specific applications.
The suitability of the products for the intended use by the user depends on different boundary conditions and influencing factors and is to be assessed exclusively by the user.

DISCLAIMER:
NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, IS MADE WITH RESPECT TO THE PRODUCTS, DESIGNS, DATA, INFORMATION DESCRIBED OR ANY INTELLECTUAL PROPERTY CONTAINED THEREIN. ANY WARRANTY OR GUARANTEE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS ALSO EXCLUDED.

The given statements and information herein reflect the current status at the time of publication.
Typing or printing errors cannot be excluded.