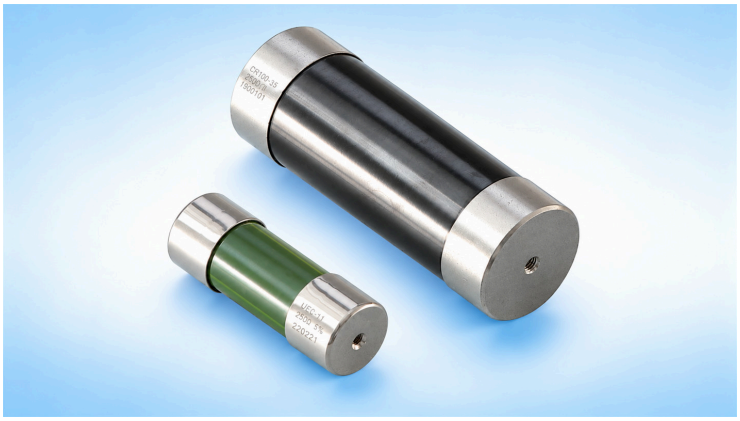
JEP Series

High Pulse-Overload Resistors



- Widely used in instrument transformers
- Motor drives and control circuits
- Medical equipment (X-ray, etc.)
- High-voltage supplies and new-energy applications

Technical Features

- Thick-film, non-inductive design
- Complies with ROHS requirements
- Good pulse load capability
- Easy to install
- For random high-energy pulse discharge and variable-frequency motor braking resistors

Applicable Standards

IEC60115-1:2001(GB/T5729-2003)

Ordering Guide

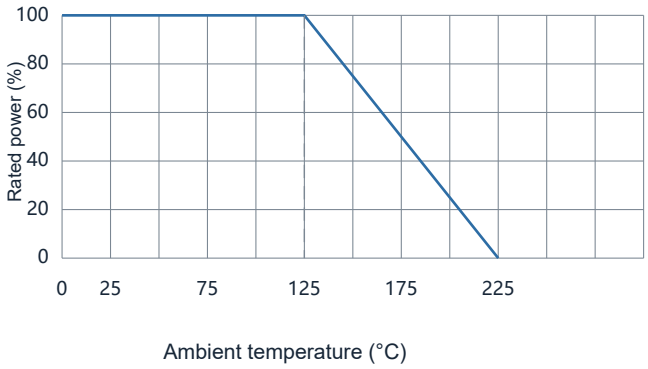
Model: JEP65/15

Resistance: 50R

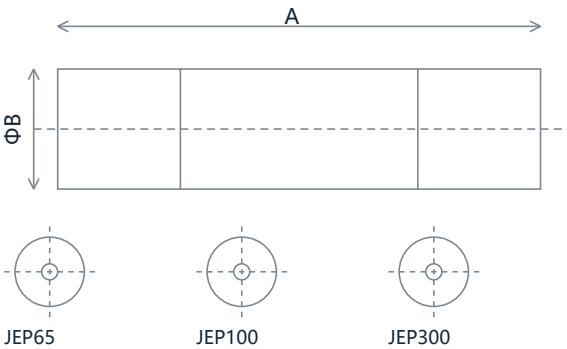
Tolerance: 5%

Special specifications can be customized by agreement.

Power Derating Curve



Dimensions



JEP65	JEP100	JEP300
M4X7.5 deep; both ends	M5X7.5 deep; both ends	M8X7.5 deep; both ends

Specifications

Model	Power 70°C (w)	Time constant =0.5s	Dimension A	Dimension øB
JEP65/15	30	E=2000J / single pulse	65.00/2.56	16.0/0.63
JEP65/20	40	E=2800J / single pulse	65.00/2.56	21.00/0.83
JEP100	100	E=10000J / single pulse	100.00/3.94(±0.50/±0.02)	36.0/1.42(±0.50/±0.02)
JEP300	150	E=18000J / single pulse	300.00/11.77(±1.00/±40.04)	39.5/1.55(±0.50/±0.02)

Main Technical Specifications

(JEP65 Series)

Resistance range	10Ω~1KΩ
Resistance tolerance	±5% ~ ±10%
Temperature coefficient	±250PPM/°C (25°C~ 105°C)
Heat capacity	JEP65/15:0.031KJ/°C JEP65/20:0.063 KJ/°C
Max. working voltage	500V; other requirements by agreement
Rated power	70°C JEP65/15:30W JEP65/20:40W
Resistor mounting	M4 screws, maximum torque 3Nm

(JEP100 Series)

Resistance range	10Ω~1KΩ
Resistance tolerance	±5% ~ ±10%
Temperature coefficient	±250PPM/°C (25°C~ 105°C)
Heat capacity	0.3KJ/°C
Max. working voltage	1200V; other requirements by agreement
Rated power	10KW for 4.5S. For durations over 4.5S: W=4500/T (watts), where T is duration in seconds. With forced-air cooling, continuous rated power is 100W.
Resistor mounting	M4 screws, maximum torque 3Nm

(JEP300 Series)

Resistance range	10Ω~1KΩ; other requirements by agreement
Resistance tolerance	±5% ~ ±10%
Temperature coefficient	±250PPM/°C (25°C ~ 105°C); other requirements by agreement
Heat capacity	0.65KJ/°C
Max. working voltage	500V; other requirements by agreement
Rated power	70°C 150W
Resistor mounting	M8 screws, maximum torque 4Nm