

Elliptical wire wound power resistors

RCE resistors are extremely rugged, suitable to stand high load thanks to their particular covering thermally conductive. They are made by a resistive alloy wire wound on an elliptical ceramic body. The winding is electrically welded to terminations and is covered by an high thermic conductivity ceramic insulating glue. Terminations are inglobed in two AISI 304 clips to have an useful electric and mechanic connection without any risk to damage protection ceramic covering. RCE resistor loaded to their nominal power and in continuous work-ing, reach the maximum superface at 400 °C, with 20 °C ambient temperature. In all the application and working areas it is advisable to not surpass such temperature.

Among principal applications:

- load resistance
- assembled groups of grater power
- filter
- snubber

MAIN TECHNICAL CHARACTERISTICS

| MODEL | RCE 300 | RCE 500 | RCE 800 | RCE 1000 | RCE 1200 | RCE 1500 | RCE 1800 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Nominal power | 300 W | 500 W | 800 W | 1000 W | 1,200 W | 1,500 W | 1.800 W |
| Min. ohmic value | 0,2 Ω | 0,3 Ω | 0,5 Ω | 0,7 Ω | 0,8 Ω | 1 Ω | 1,2 Ω |
| Max ohmic value | 18 KΩ | 27 KΩ | 47 KΩ | 57 KΩ | 68 KΩ | 82 KΩ | 100 KΩ |
| Resistance tolerance* | J | ± 5% | ± 5% | ± 5% | ± 5% | ± 5% | ± 5% |
| | K | ± 10% | ± 10% | ± 10% | ± 10% | ± 10% | ± 10% |
| Dielectric strength (50 Hz; 1 min) towards support bar | 3.000 Veff. | 3.000 Veff. | 3.000 Veff. | 3.000 Veff. | 3.000 Veff. | 3.000 Veff. | 3.000 Veff. |
| Insulation resistance (500 Vcc) towards support bar | ≥ 1.000 MΩ | ≥ 1.000 MΩ | ≥ 1.000 MΩ | ≥ 1.000 MΩ | ≥ 1.000 MΩ | ≥ 1.000 MΩ | ≥ 1.000 MΩ |
| Limit voltage | 2.000 Veff. | 2.000 Veff. | 2.000 Veff. | 2.000 Veff. | 2.000 Veff. | 2.000 Veff. | 2.000 Veff. |
| Max overload | x 5 sec. | 10 x Pn | 10 x Pn | 10 x Pn | 10 x Pn | 10 x Pn | 10 x Pn |
| | x 1 min. | 2 x Pn | 2 x Pn | 2 x Pn | 2 x Pn | 2 x Pn | 2 x Pn |
| Max temp. coeff. (TCR in ppm/°C) | ± 60 ÷ 270 | ± 60 ÷ 270 | ± 60 ÷ 270 | ± 60 ÷ 270 | ± 60 ÷ 270 | ± 60 ÷ 270 | ± 60 ÷ 270 |

DIMENSIONS IN mm

| MODEL | RCE 300 | RCE 500 | RCE 800 | RCE 1000 | RCE 1200 | RCE 1500 | RCE 1800 |
|---------------------|---------|---------|---------|----------|----------|----------|----------|
| A | 230 | 280 | 380 | 440 | 500 | 620 | 690 |
| B | 190 | 240 | 340 | 400 | 460 | 580 | 650 |
| L | 145 | 195 | 295 | 355 | 395 | 495 | 595 |
| Medium (gr) approx. | 950 | 1.050 | 1.400 | 1.500 | 1.750 | 2.100 | 2.450 |

