

RCE

Description

Elliptical shape, High surface load, Submerged collars

Mechanical characteristics

IP00, Soldering terminals, Suitable for grouping

Applications

Dynamic braking, Harmonic filter, Charge/discharge capacitor, Heating

Market

Industrial Automation, Energy

Special version

Ohmic values out of range, Special tolerance on resistance (2%, 1%), Adjustable version, Low inductance, Intermediate grip

Active materials

Depending on the ohmic value the used alloy may be NiCr or CuNi44



31 W ÷ 91 W



ELECTRICAL CHARACTERISTICS

refers to room temperature 25°C

ID	Rated Power	Min Resistance	Max Resistance	Min res.not-inductive version	Max res. Not inductive version	Limit Voltage
Unit	W	Ω	Ω	Ω	Ω	V
RCE 31	31	2,2	18k	8,2	4k3	700
RCE 53	53	4,7	39k	20	10k	1000
RCE 68	68	6,8	56k	27	13k	1500
RCE 91	91	9,1	75k	36	18k	1500
Insulation resistance 500 VDC		>100 MΩ		Temp. Coefficient Resistance		40÷240 10-6/°C
Max Overload 10"		5xP _r		Dielectric strength 50Hz; 60"		1000 V

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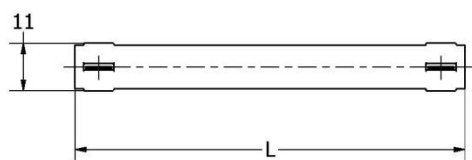
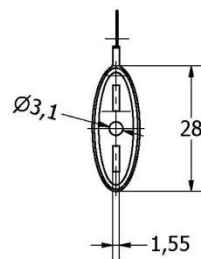
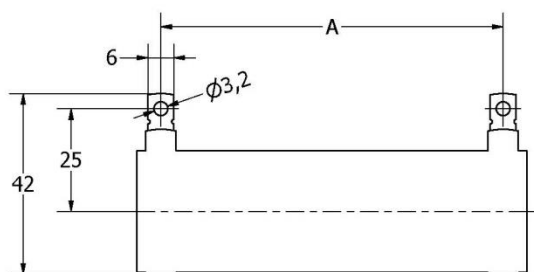
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MECHANICAL DATA

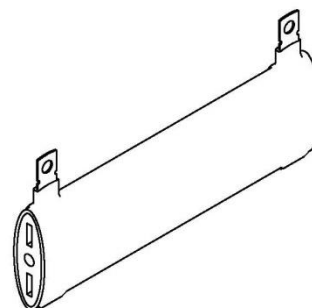
Dimensions [mm]	A	L	BRACKETS	Weight [g]
RCE 31	40	51	SP1; SP3; SPD	23
RCE 53	79	90	SP1; SP3; SPD	47
RCE 68	109	120	SP1; SP3; SPD	62
RCE 91	142	153	SP1; SP3; SPD	84

DRAWING

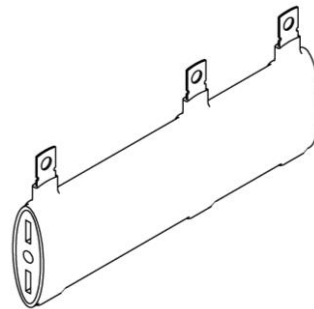
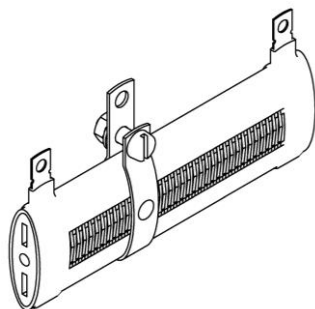
Unless otherwise specified, applicable standard of general tolerances for linear and angular dimensions is ISO 2768-1 class c; applicable standard for ceramic parts is DIN 40680-1 (general dimension) class g and DIN 40680-22 (shape) class g.



ADJUSTABLE VERSION



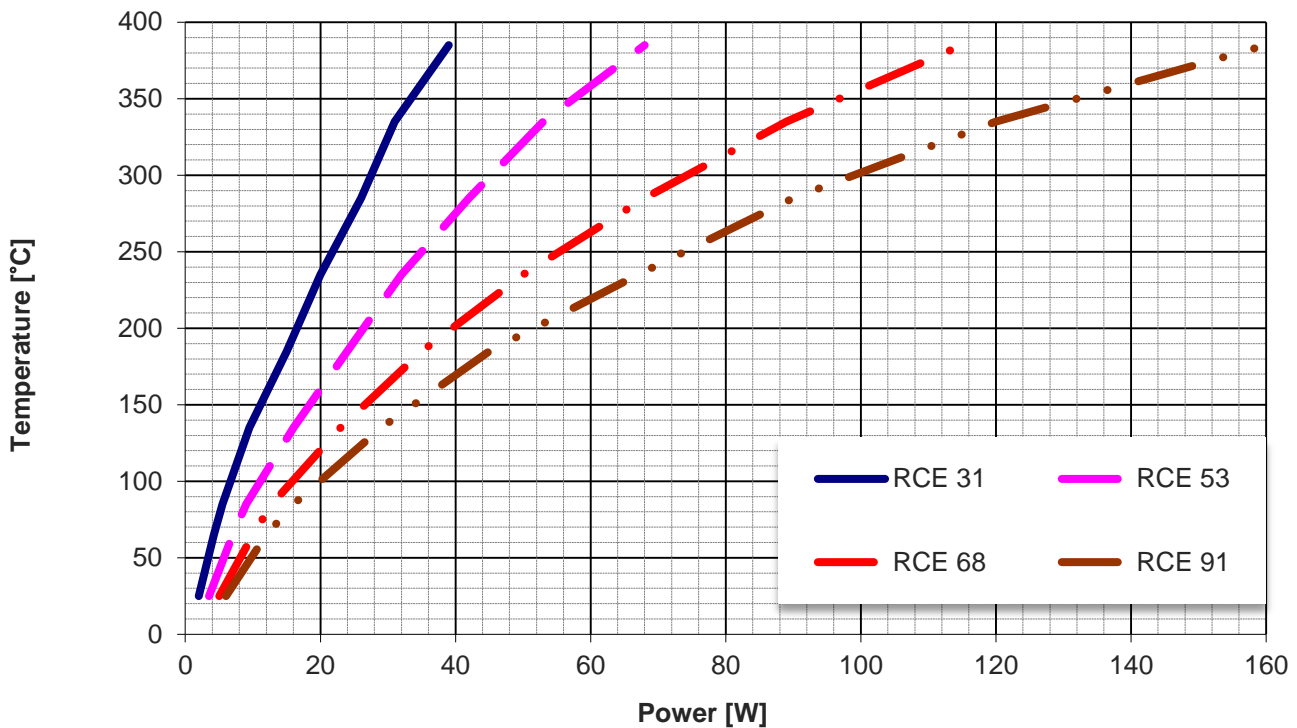
INTERMEDIATE GRIP



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SURFACE TEMPERATURE CHARACTERISTIC



Except where stated otherwise, Rated power is given at 20 °C ambient temperature. The maximum power that can be dissipated decreases with the increase of ambient temperature. Derating drops to zero at 350°C ambient temperature from nominal rating at 25%.

Marking

The resistor is marked on the collar with indelible ink high temperature
FAIRFIELD RCE 31 150R 5% WW/YY (week / year)

Packing

The resistor is packed in a way to preserve incidental damages due to transport. The resistor is made by ceramic parts, accidental fall can damage it, handle with care.

Disclaimer

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Ordering information

RCE/Y XXX RRRR 5%

Y N : not inductive version
R : adjustable version
P : intermediate grip
T : traction version

XXX Model / Rated power

RRRR Resistance value (nominal at 20°C)

Example

RCE 31 150R 5%
RCE is the name of the product
31 is the model that corresponds, for RCE family, to the rated power, in this case 31 W
150R means 150 Ω that is the nominal ohmic value at 20°C

5% is the tolerance on the ohmic value, in this case the value of the resistor is accepted when is within 142.5 Ω ÷ 157.5 Ω