Wirewound resistor coated with cement

Description
Tubolar ceramic support, Submerged collars

Mechanical characteristics
IP00, Soldering terminals, Cylindrical shape

Applications
Dynamic braking, Harmonic filter, Neutral grounding, Charge/discharge capacitor, Heating

Market
Railways, 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

RCA

CE RoHS COMPLIANT Pb-Free

25 W ÷ 1000 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
RCA 25	25	0,91	12k	3,6	3k	700
RCA 26	26	1,3	18k	5,1	4k7	700
RCA 36	36	1,6	24k	6,8	5k6	1000
RCA 50	50	2,4	33k	10	8k2	1500
RCA 52	52	2,4	33k	9,1	8k2	1500
RCA 65	65	2	43k	7,5	11k	1800
RCA 75	75	2,4	56k	10	13k	1800
RCA 90	90	3	62k	12	16k	1800
RCA 100	100	3,6	82k	15	20k	2000
RCA 150	150	5,6	91k	22	30k	2000
RCA 200	200	7,5	91k	30	43k	2500
RCA 250	250	10	91k	39	56k	3000
RCA 300	300	11	91k	43	62k	3000
RCA 400	400	4,7	68k	18	16k	3000
RCA 500	500	5,6	82k	24	20k	3000
RCA 600	600	6,8	91k	27	24k	3000
RCA 800	800	10	91k	39	36k	3000
RCA 1000	1000	13	91k	51	43k	3000
Insulation resistance 500 VDC		≥100 MΩ		Temp. Coefficient Resistance		40÷240 10^{-6}/°C
Max Overload 10" / 5"		$5xP_r$ / $10xP_r$		Dielectric strength 50Hz; 60"		1000 V

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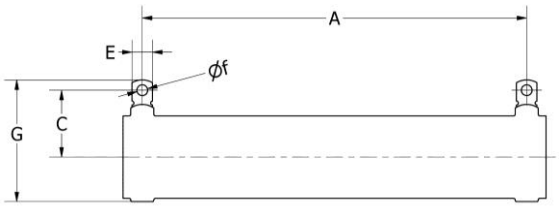
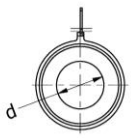
MECHANICAL DATA

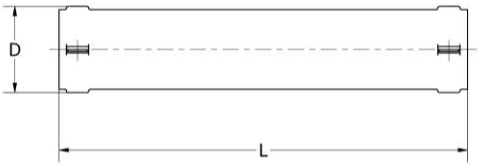
Dimensions [mm]	A	C	D	E	d	f	G	L	BRACKETS	Weight [g]
RCA 25	38	17	14	6	8,2	3,2	27,8	51	SQ/SC 13	18
RCA 26	51	16	15,5	6	7	3,2	26,3	64	SQ/SC 10	18
RCA 36	63	17	15,5	6	8,2	3,2	27,8	76	SQ/SC 13	24
RCA 50	89	17	15,5	6	8,2	3,2	27,8	102	SQ/SC 13	37
RCA 52	77	19	17,5	6	9,5	3,2	30,8	90	SQ/SC 20	42
RCA 65	85	26	21,5	8	9,5	4,2	40,8	100	SQ/SC 20	70
RCA 75	139	17	14,5	6	8,2	3,2	27,8	152	SQ/SC 13	57
RCA 90	85	30	31,5	8	18,5	4,2	49,8	100	SQ/SC 30	120
RCA 100	150	26	21,5	8	13	4,2	40,8	165	SQ/SC 23	88
RCA 150	150	30	31,5	8	18,5	4,2	49,8	165	SQ/SC 30	185
RCA 200	200	30	31,5	8	18,5	4,2	49,8	215	SQ/SC 30	235
RCA 250	250	30	31,5	8	18,5	4,2	49,8	265	SQ/SC 30	300
RCA 300	285	30	31,5	8	18,5	4,2	49,8	300	SQ/SC 30	360
RCA 400	270	34	41,5	10	18,5	6,3	61	300	SQ/SC 30	800
RCA 500	270	39	51,5	10	28	6,3	71	300	SO 50	1100
RCA 600	270	44	61,5	10	44	6,3	81	300	SO 60	1050
RCA 800	370	44	61,5	10	44	6,3	81	400	SO 60	1400
RCA 1000	470	44	61,5	10	44	6,3	81	500	SO 60	1800

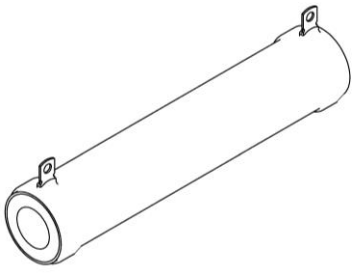
DRAWING

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.

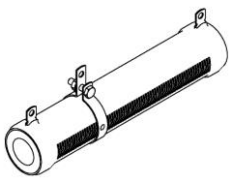




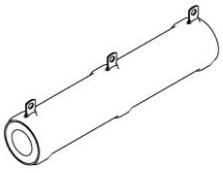




ADJUSTABLE VERSION



INTERMEDIATE GRIP



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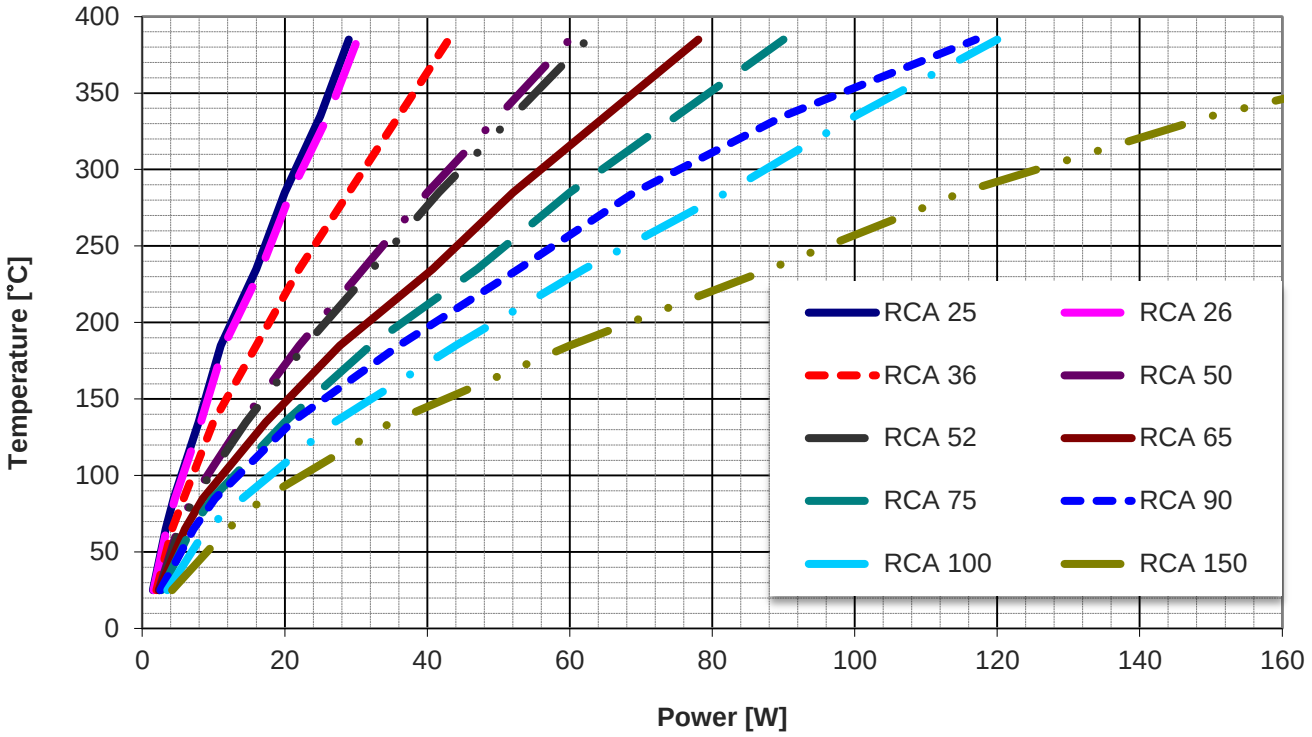
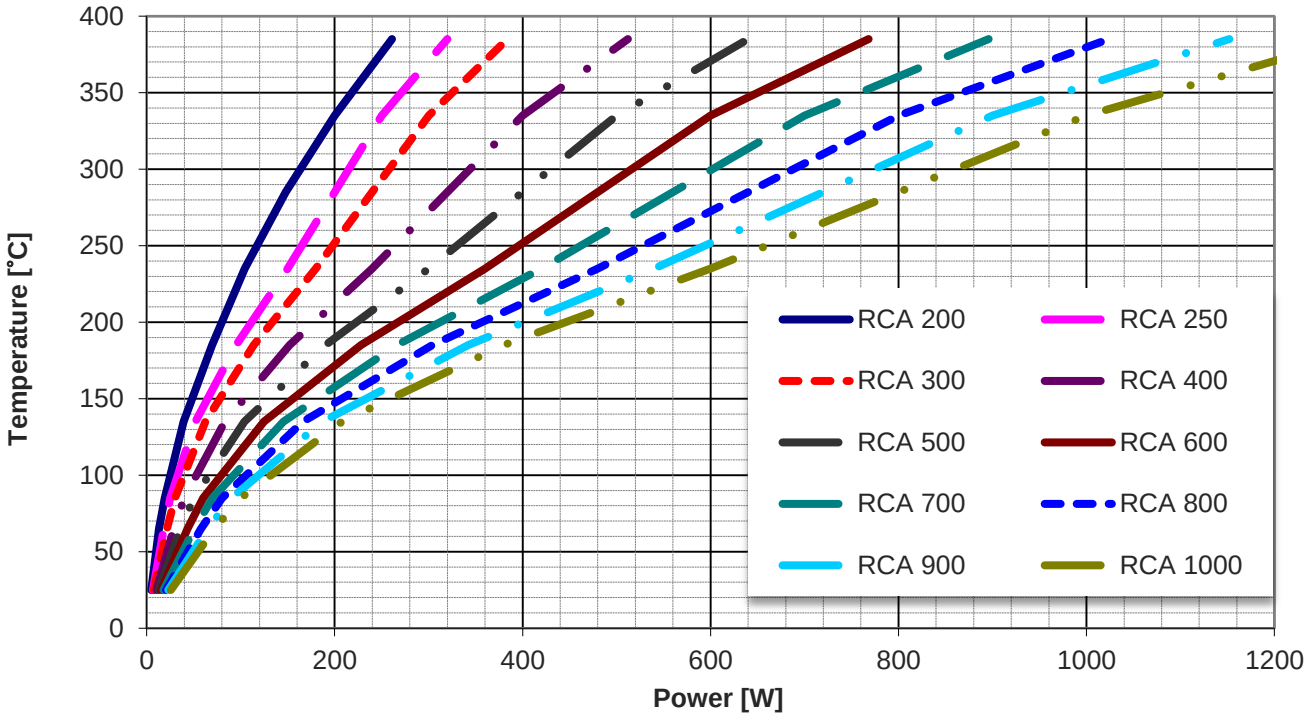
SURFACE TEMPERATURE CHARACTERISTIC



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%.



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Marking

The resistor is marked on the collar with indelible ink high temperature
FAIRFILD RCA 300 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

RCA/Y XXX RRRR 5%
Y N : not inductive version
R : adjustable version
P : intermediate grip

XXX Model / Rated power i.e. 300 : 300 W

RRRR Resistance value (nominal at 20°C)

Example
RCA 300 150R 5%
RCA is the name of the product
300 is the model that corresponds, for RCA family, to the rated power, in this case 300 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

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