



ROD RESISTORS

Rod Resistors are available in a wide assortment of diameters and lengths to meet your application needs. Standard rod resistor applications include high power loads, snubber circuit RF power amplifiers, impulse voltage generators, high voltage circuits and power supplies, X-ray equipment, and dummy loads. The ceramic composition rods perform well where high peak power or high energy pulses are required to be handled. These non-inductive resistors are able to dissipate the energy uniformly through the entire resistor body. The rods are available with a number of terminations available to meet your connecting requirements, including straight brass terminals or rounded edges. Various Metal Terminals are available for utilization in the installation and electrical connections. Please see under the Products Tab / Available Terminals.

ZIRCONIA Material Code – 83	1/2" Diameter	Part Number	Diameter	Length*	Low	High	Power	Energy	Voltage
		<i>ZIRCONIA</i>	<i>Inches</i>	<i>Inches</i>	<i>Ohms</i>	<i>Ohms</i>	<i>Watts</i>	<i>joules</i>	<i>Maximum</i>
		83-RC02	0.500	2	9.0	40,000	4.7	1,800	10,000
		83-RC04	0.500	4	17.0	81,000	9.4	3,700	20,000
		83-RC06	0.500	6	25.0	122,000	14.1	5,600	40,000
		83-RC08	0.500	8	33.0	162,000	18.8	7,500	60,000
		83-RC10	0.500	10	41.0	203,000	23.6	9,400	80,000
		83-RC12	0.500	12	49.0	244,000	28.3	11,300	100,000

ZIRCONIA Material Code – 83	3/4" Diameter	Part Number	Diameter	Length*	Low	High	Power	Energy	Voltage
		<i>ZIRCONIA</i>	<i>Inches</i>	<i>Inches</i>	<i>Ohms</i>	<i>Ohms</i>	<i>Watts</i>	<i>joules</i>	<i>Maximum</i>
		83-RD02	0.750	2	4.0	18,000	10.6	4,200	10,000
		83-RD04	0.750	4	8.0	36,000	21.2	8,400	20,000
		83-RD06	0.750	6	11.0	54,000	31.8	12,700	40,000
		83-RD08	0.750	8	15.0	72,000	42.4	16,900	60,000
		83-RD10	0.750	10	19.0	90,000	53.0	21,200	80,000
		83-RD12	0.750	12	22.0	108,000	63.6	25,400	100,000

ZIRCONIA Material Code – 83	1" Diameter	Part Number	Diameter	Length*	Low	High	Power	Energy	Voltage
		<i>ZIRCONIA</i>	<i>Inches</i>	<i>Inches</i>	<i>Ohms</i>	<i>Ohms</i>	<i>Watts</i>	<i>joules</i>	<i>Maximum</i>
		83-RE02	1.000	2	3.0	10,000	18.0	7,500	10,000
		83-RE04	1.000	4	4.0	20,000	37.0	15,000	20,000
		83-RE06	1.000	6	7.0	30,000	56.0	22,600	40,000
		83-RE08	1.000	8	9.0	40,000	75.0	30,100	60,000
		83-RE10	1.000	10	11.0	50,000	94.0	37,600	80,000
		83-RE12	1.000	12	13.0	61,000	113.0	45,200	100,000
		83-RE14	1.000	14	15.0	71,000	131.0	52,700	120,000
		83-RE16	1.000	16	17.0	81,000	150.0	60,300	140,000
		83-RE18	1.000	18	18.0	91,000	169.0	67,800	160,000

ZIRCONIA Material Code – 83	1-1/2" Diameter	Part Number	Diameter	Length*	Low	High	Power	Energy	Voltage
		ZIRCONIA	Inches	Inches	Ohms	Ohms	Watts	joules	Maximum
		83-RF02	1.500	2	1.0	4,500	40.0	16,000	10,000
		83-RF04	1.500	4	2.0	9,000	80.0	33,000	20,000
		83-RF06	1.500	6	3.0	13,500	125.0	50,000	40,000
		83-RF08	1.500	8	4.0	18,000	165.0	67,000	60,000
		83-RF10	1.500	10	5.0	22,000	210.0	84,000	80,000
		83-RF12	1.500	12	6.0	27,000	250.0	101,000	100,000
		83-RF14	1.500	14	7.0	31,000	290.0	118,000	120,000
		83-RF16	1.500	16	8.0	36,000	335.0	135,000	140,000
		83-RF18	1.500	18	9.0	40,000	380.0	152,000	160,000

ZIRCONIA Material Code – 83	1-5/8" Diameter	Part Number	Diameter	Length*	Low	High	Power	Energy	Voltage
		ZIRCONIA	Inches	Inches	Ohms	Ohms	Watts	joules	Maximum
		83-RG02	1.625	2	0.9	3,800	44.0	19,000	10,000
		83-RG04	1.625	4	1.7	7,700	95.0	39,000	20,000
		83-RG06	1.625	6	2.5	11,500	145.0	59,000	40,000
		83-RG08	1.625	8	3.3	15,400	195.0	79,000	60,000
		83-RG10	1.625	10	4.0	19,200	245.0	99,000	80,000
		83-RG12	1.625	12	4.8	23,100	295.0	119,000	100,000
		83-RG14	1.625	14	5.6	27,000	345.0	139,000	120,000
		83-RG16	1.625	16	6.3	30,800	395.0	159,000	140,000
		83-RG18	1.625	18	6.9	34,700	445.0	179,000	160,000

ALUMINA Material Code – 85	1/2" Diameter	Part Number	Diameter	Length*	Low	High	Power	Energy	Voltage
		ZIRCONIA	Inches	Inches	Ohms	Ohms	Watts	joules	Maximum
		85-RC02	0.525	2	18	36,000	4.7	1,800	10,000
		85-RC04	0.525	4	36	72,000	9.4	3,700	30,000
		85-RC06	0.525	6	56	110,000	14.1	5,600	50,000
		85-RC08	0.525	8	74	145,000	18.8	7,500	70,000
		85-RC10	0.525	10	92	184,000	23.6	9,400	90,000
		85-RC12	0.525	12	110	220,000	28.3	11,300	110,000

ALUMINA Material Code – 85	3/4" Diameter	Part Number	Diameter	Length*	Low	High	Power	Energy	Voltage
		ZIRCONIA	Inches	Inches	Ohms	Ohms	Watts	joules	Maximum
		85-RD02	0.775	2	8	16,000	10.6	4,200	10,000
		85-RD04	0.775	4	18	32,000	21.2	8,400	30,000
		85-RD06	0.775	6	26	50,000	31.8	12,700	50,000
		85-RD08	0.775	8	34	67,000	42.4	16,900	70,000
		85-RD10	0.775	10	44	84,000	53.0	21,200	90,000
		85-RD12	0.775	12	52	100,000	63.6	25,400	110,000

ALUMINA Material Code – 85	1" Diameter	Part Number	Diameter	Length*	Low	High	Power	Energy	Voltage
		ZIRCONIA	Inches	Inches	Ohms	Ohms	Watts	joules	Maximum
		85-RE02	1.000	2	6	10,000	18.8	7,500	10,000
		85-RE04	1.000	4	10	20,000	37.7	15,000	30,000
		85-RE06	1.000	6	16	30,000	56.5	22,600	50,000
		85-RE08	1.000	8	22	40,000	75.4	30,100	70,000
		85-RE10	1.000	10	26	50,000	94.2	37,600	90,000
		85-RE12	1.000	12	32	60,000	113.1	45,200	110,000
		85-RE14	1.000	14	36	70,000	131.9	52,700	130,000
		85-RE16	1.000	16	42	80,000	150.8	60,300	150,000
		85-RE18	1.000	18	46	90,000	169.6	67,800	170,000

ALUMINA Material Code – 85	1-1/2" Diameter	Part Number	Diameter	Length*	Low	High	Power	Energy	Voltage
		ZIRCONIA	Inches	Inches	Ohms	Ohms	Watts	joules	Maximum
		85-RF02	1.500	2	2.5	4,500	42.4	16,900	10,000
		85-RF04	1.500	4	4.8	9,000	84.8	33,900	30,000
		85-RF06	1.500	6	7.0	13,000	127.2	50,800	50,000
		85-RF08	1.500	8	9.5	18,000	169.6	67,800	70,000
		85-RF10	1.500	10	11.5	22,000	212.1	84,800	90,000
		85-RF12	1.500	12	14.0	27,000	254.5	101,700	110,000
		85-RF14	1.500	14	16.0	31,000	296.9	118,700	130,000
		85-RF16	1.500	16	18.5	36,000	339.3	135,700	150,000
		85-RF18	1.500	18	20.5	40,000	381.7	152,600	170,000

ALUMINA Material Code – 85	1-5/8" Diameter	Part Number	Diameter	Length*	Low	High	Power	Energy	Voltage
		ZIRCONIA	Inches	Inches	Ohms	Ohms	Watts	joules	Maximum
		85-RG02	1.640	2	2.0	3,700	49.8	19,900	10,000
		85-RG04	1.640	4	4.0	7,500	99.5	39,800	30,000
		85-RG06	1.640	6	5.8	11,000	149.3	59,700	50,000
		85-RG08	1.640	8	7.8	15,000	199.1	79,600	70,000
		85-RG10	1.640	10	9.5	18,500	248.9	99,500	90,000
		85-RG12	1.640	12	11.5	22,500	298.6	119,400	110,000
		85-RG14	1.640	14	13.5	26,000	348.4	139,300	130,000
		85-RG16	1.640	16	15.5	30,000	398.2	159,200	150,000
		85-RG18	1.640	18	17.5	33,500	448.0	179,100	170,000

Part Number plus the Resistance Code is used for specifying a particular part.

- The Resistance code is defined by the first two numbers of the resistance value, followed by a single number multiplier.
- The resistance tolerance (20% is L, 10% is K, 5% is J). When the resistance is less than 10 ohms, the multiplier is not used and replaced by an "R".

For example, the following would be qualified as:

- 0.775" x 6.0" Ceramic Alumina Resistor Rod at 5 ohms +/- 10% 85-RD06-5R0K
- 1.50" x 16.0" Ceramic Zirconia Resistor Rod at 150 ohms +/- 20% 83-RF16-151L