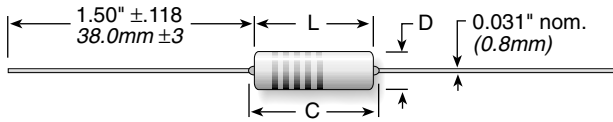


OX/OY Series



Ceramic Composition 10% Tolerance

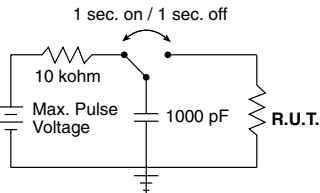
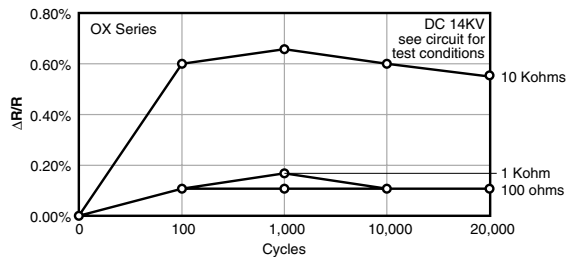
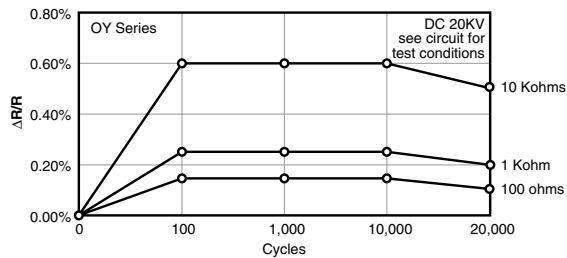


Series	Watts max.*	Resistance		Length L		Length C		Diameter D ±.039 (±1.0)	Joules max.**	Max Working volts	Qty. per reel
		min.	max.	±.039 (±1.0)	max.	±.039 (±1.0)	max.				
OX	1	3.3	100K	0.65 / 16.5	0.748 / 19.0	0.217 / 5.5	50	300	1000		
OY	2	3.3	1M	0.748 / 19.0	0.886 / 22.5	0.276 / 7.0	80	400	500		

* at 70°C. **For a single impulse.

The OX/OY Series of fixed ceramic resistors are ideal for circuitry associated with surges, high peak power or high energy. They offer enhanced performance in high voltage power supplies, R-C snubber circuits, and inrush limiters. The OX/OY resistors can often replace carbon composition resistors which can be difficult to source.

RESISTANCE TO PULSE



14KV and 20KV values used in circuit as shown; full voltage not applied directly to resistor.

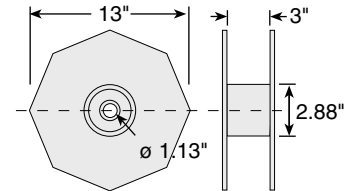
FEATURES

- Replaces 1 and 2 watt carbon composition resistors
- Meets high energy density demands
- High peak power
- 10% Tolerance

SPECIFICATIONS

- Material**
Terminals: Pb Free Solder-coated axial
Coating: UL-94 V0 approved silicone
Derating: Linear from 100% @ +70°C to 0% @ +200°C
Operating Temp. Range: -40°C to +220°C
Electrical
Tolerance: ±10% standard
Power Rating: Based on 70°C free air rating.
Temperature Coefficient: -1300 ±300ppm/°C.

REEL DIMENSIONS



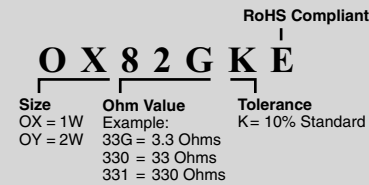
PERFORMANCE CHARACTERISTICS

Test	OX	OY
Max Working Voltage	300V	400V
Dielectric Strength	500V	700V
Max Overload Voltage	600V	800V
Max Pulse Voltage ¹	14KV	20KV
Pulse Tolerance, 100 pulses	1240V @ 52µF, 40J/ 35 sec.	1640V @ 52µF, 70J/35 sec.

Test	Condition	Maximum ΔR
Life Test	MIL-STD-202, Method 108	±5%
Short Time Overload	2x rated V, 5 sec ON @ 70°C	±(2% + 0.05ohm)
Resistance to Pulse ¹	see circuit for test conditions	±5%
Thermal Shock	MIL-STD-202, Method 107	±(2% ± 0.05 ohm)
Moisture Resistance	1000 hrs @ 40°C, 90 - 95% RH	±5%

¹See figures, left

ORDERING INFORMATION



Check product availability at www.ohmite.com

STANDARD PART NUMBERS FOR OX/OY SERIES

Ohmic value	Part No. Prefix Suffix	Wattage		Ohmic value	Part No. Prefix Suffix	Wattage		Ohmic value	Part No. Prefix Suffix	Wattage		Ohmic value	Part No. Prefix Suffix	Wattage	
		1	2			1	2			1	2			1	2
3.3	33GKE	✓	✓	27	270KE	✓	✓	220	221KE	✓	✓	1800	182KE	✓	✓
3.9	39GKE	✓	✓	33	330KE	✓	✓	270	271KE	✓	✓	2200	222KE	✓	✓
4.7	47GKE	✓	✓	39	390KE	✓	✓	330	331KE	✓	✓	2700	272KE	✓	✓
5.6	56GKE	✓	✓	47	470KE	✓	✓	390	391KE	✓	✓	3300	332KE	✓	✓
6.8	68GKE	✓	✓	56	560KE	✓	✓	470	471KE	✓	✓	3900	392KE	✓	✓
8.2	82GKE	✓	✓	68	680KE	✓	✓	560	561KE	✓	✓	4700	472KE	✓	✓
10	100KE	✓	✓	82	820KE	✓	✓	680	681KE	✓	✓	5600	562KE	✓	✓
12	120KE	✓	✓	100	101KE	✓	✓	820	821KE	✓	✓	6800	682KE	✓	✓
15	150KE	✓	✓	120	121KE	✓	✓	1000	102KE	✓	✓	8200	822KE	✓	✓
18	180KE	✓	✓	150	151KE	✓	✓	1200	122KE	✓	✓	10000	103KE	✓	✓
22	220KE	✓	✓	180	181KE	✓	✓	1500	152KE	✓	✓	12000	123KE	✓	✓
												15000	153KE	✓	✓
												18000	183KE	✓	✓
												22000	223KE	✓	✓
												27000	273KE	✓	✓
												33000	333KE	✓	✓
												39000	393KE	✓	✓
												47000	473KE	✓	✓
												56000	563KE	✓	✓
												68000	683KE	✓	✓
												82000	823KE	✓	✓
												100000	104KE	✓	✓
												120000	124KE	✓	✓
												150000	154KE	✓	✓
												180000	184KE	✓	✓
												220000	224KE	✓	✓
												270000	274KE	✓	✓
												330000	334KE	✓	✓
												390000	394KE	✓	✓
												470000	474KE	✓	✓
												560000	564KE	✓	✓
												680000	684KE	✓	✓
												820000	824KE	✓	✓
												1 MEG	105KE	✓	✓