

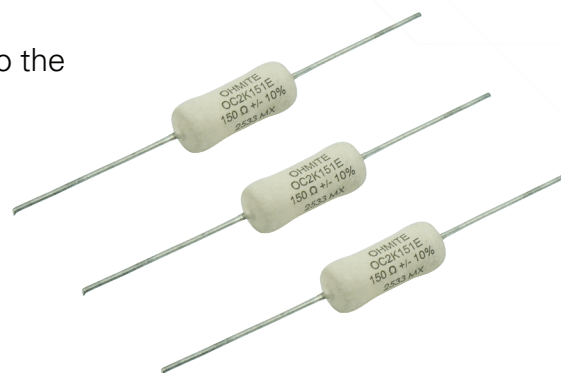
OC Series

Ceramic Composition 10% Tolerance

The OC 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 OC resistors can often replace carbon composition resistors which can be difficult to source.

FEATURES

- Replaces 1 and 2 watt carbon composition resistors
- Excellent alternative to the Ohmite OX/OY series
- Meets high energy density demands
- High peak power
- 10% Tolerance
- Non-Inductive



SERIES SPECIFICATIONS

Series	Resistance range	Avg Power (w) @ 70°C	Peak Energy (j)	Rated Peak Volt (v)	Weight (g)
OC1	6.0 - 3,200	1.2	140	950	1.0
OC2	8.0 - 3,200	1.7	200	1,100	1.2
OC3	12 - 5,000	2.5	275	2,500	1.9

CHARACTERISTICS

Terminals	Pb-free solder-coated axial
Coating	Silicone ceramic
Derating	Linear from 100% @ +70°C to 0% @ +230°C
Operating Temp. Range	-55 °C to +230°C
Tolerance	±10% standard
Power Rating	Based on 70°C free air rating
Temperature Coefficient	0 to - 800 ppm/°C

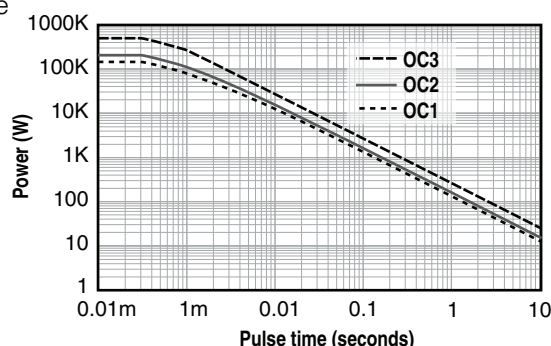
	OC1	OC2	OC3
Max Working Voltage	370V	450V	600V
Dielectric Strength	300V	700V	700V
Max Overload Voltage	740V	900V	1200V
Max Pulse Voltage¹	14KV	20KV	20KV

¹See figures

Test	Condition	Maximum ΔR
Life Test	1000 hours at rated power	±5%
Short Time Overload	2x rated V, 5 sec ON @ 70°C	±(2% +0.05Ω)
Thermal Shock	MIL-STD-202, Method 107	±3%
Moisture Resistance	MIL-STD-202 Method 103	±5%

Pulse Limiting Power

One pulse



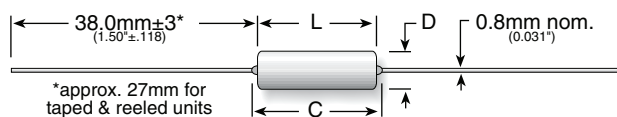
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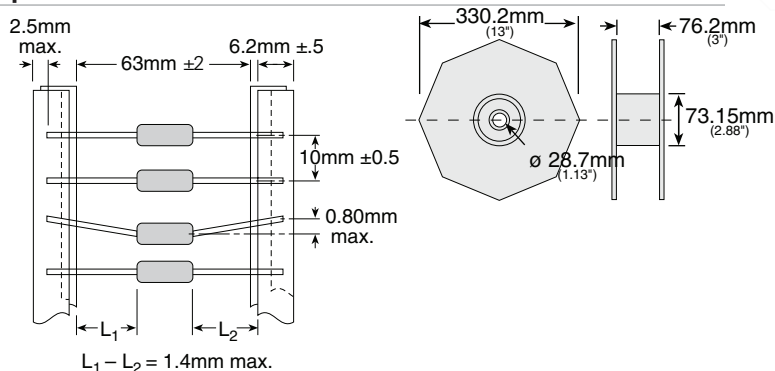
DIMENSIONS

mm/(in.)



Series	Diameter D ±0.039	Length L ±0.039	Length C REF	Qty. per reel
OC1	7.9/(0.31")	16.5/(0.65")	19.0/(0.75")	250
OC2	7.9/(0.31")	19.1/(0.75")	22.6/(0.89")	250
OC3	7.9/(0.31")	28.6/(1.13")	32.1/(1.26")	250

Tape and Reel Dimensions



ORDERING INFORMATION

Standard part numbers for OC Series

Ohmic value	Part No. Prefix > Suffix ↓	Size OC1 - 1 OC2 - 2 OC3 - 3	Ohmic value	Part No. Prefix > Suffix ↓	Size OC1 - 1 OC2 - 2 OC3 - 3	Ohmic value	Part No. Prefix > Suffix ↓	Size OC1 - 1 OC2 - 2 OC3 - 3	Ohmic value	Part No. Prefix > Suffix ↓	Size OC1 - 1 OC2 - 2 OC3 - 3
6.8	—K6R8E	✓	39	—K390E	✓ ✓ ✓	220	—K221E	✓ ✓ ✓	1200	—K122E	✓ ✓ ✓
8.2	—K8R2E	✓ ✓	47	—K470E	✓ ✓ ✓	270	—K271E	✓ ✓ ✓	1500	—K152E	✓ ✓ ✓
10	—K100E	✓ ✓	56	—K560E	✓ ✓ ✓	330	—K331E	✓ ✓ ✓	1800	—K182E	✓ ✓ ✓
12	—K120E	✓ ✓ ✓	68	—K680E	✓ ✓ ✓	390	—K391E	✓ ✓ ✓	2200	—K222E	✓ ✓ ✓
15	—K150E	✓ ✓ ✓	82	—K820E	✓ ✓ ✓	470	—K471E	✓ ✓ ✓	2700	—K272E	✓ ✓ ✓
18	—K180E	✓ ✓ ✓	100	—K101E	✓ ✓ ✓	560	—K561E	✓ ✓ ✓	3300	—K332E	✓ ✓ ✓
22	—K220E	✓ ✓ ✓	120	—K121E	✓ ✓ ✓	680	—K681E	✓ ✓ ✓	3900	—K392E	✓ ✓ ✓
27	—K270E	✓ ✓ ✓	150	—K151E	✓ ✓ ✓	820	—K821E	✓ ✓ ✓	4700	—K472E	✓ ✓ ✓
33	—K330E	✓ ✓ ✓	180	—K181E	✓ ✓ ✓	1000	—K102E	✓ ✓ ✓			

RoHS Compliant Packaging TR = tape & reel

OC 2 K 1 2 0 E -TR

Series Body size Tolerance Ohm value

K = 10% std. 120 = 12Ω 121 = 120Ω