

The All New OC Series. The Wait is Over.

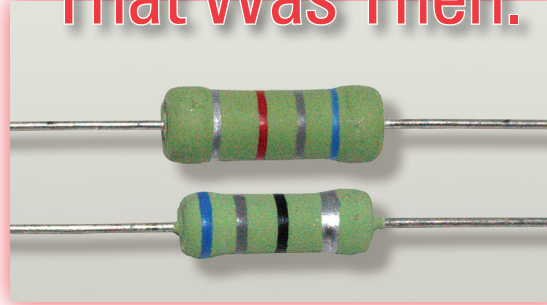
If you've been relying on the Ohmite OX/OY Series or KOA PCF1/PCF2 Series Resistors, but have been frustrated by excessive lead times, the new Ohmite OC Series is for you. *The OC Series ships up to four times faster, with no loss in quality or performance!* With comparable sizes and specifications, the OC Series is the resistor you need now. And you can have it now.

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

- 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

OHMITE®

That Was Then.



This Is Now.



Specifications					Dimensions	
Series	Power (W)	Single Impulse Energy (J)	Resistance Range (Ω)	TCR (ppm/ $^{\circ}$ C)	Length (mm)	Diameter Max. (mm)
OC1	1.2 @ 70 $^{\circ}$ C* 1.0 @ 70 $^{\circ}$ C*	140 40**	6.0 - 1,760 1,760 - 146,000	0 to -800	16.5	7.9
OC2	1.7 @ 70 $^{\circ}$ C* 1.0 @ 70 $^{\circ}$ C*	200 80**	8.0 - 2,400 2,400 - 200,000	0 to -800	19.1	7.9
OC3	2.5 @ 70 $^{\circ}$ C* 2.0 @ 70 $^{\circ}$ C*	275 140**	12.0 - 5,000 5,000 - 300,000	0 to -800	28.6	7.9
OX	1.0 @ 70 $^{\circ}$ C	50	3.3 - 100,000	-1000 to -1600	16.5	5.5
OY	2.0 @ 70 $^{\circ}$ C	80	3.3 - 1,000,000	-1000 to -1600	19.1	8
PCF1	1.0 @ 70 $^{\circ}$ C	-	3.3 - 390,000	-500 to -2000	16.5	5.5
PCF2	2.0 @ 70 $^{\circ}$ C	-	3.3 - 390,000	-500 to -2000	19.1	7

*Lower power ratings at higher resistance values

** Higher energy ratings at lower resistance values

Crosses		
Ohmite Series	Alternate Ohmite Series	KOA
OC1	OX	PCF1
OC2	OY	PCF2

Ohmite Manufacturing Company has been the leading provider of resistive products for high current, high voltage, and high energy applications for over 90 years.

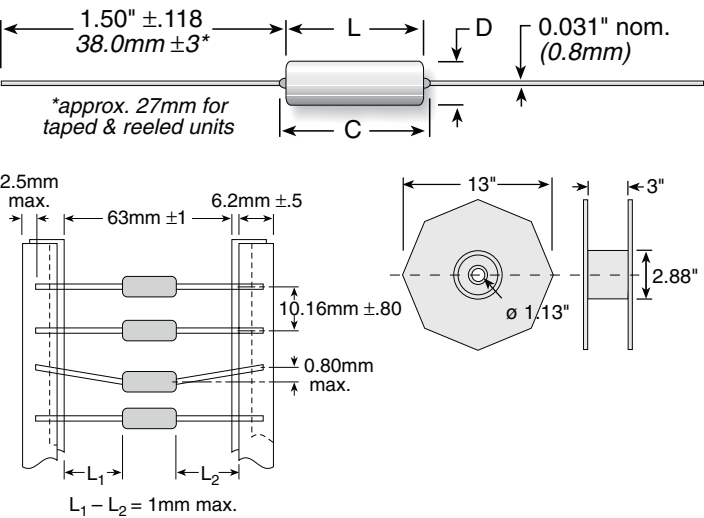
Operations began in a small shop on the west side of Chicago in 1925. Founded by David T. Siegel, the company’s focus was to manufacture carbon and wirewound ‘lug’ resistors for Chicago’s growing radio manufacturing industry.

As the world and the electronics industry evolved, Ohmite evolved along with it to service additional aspects of electronic design, including EMI mitigation and thermal management.

We now offer a broad selection of EMI filters, power resistors, ceramic resistors, capacitors, power controls, and heat sinks to worldwide customers in the industrial, medical, military, and aerospace industries.

Get in touch. We’re ready to help you find a solution to your design challenges.

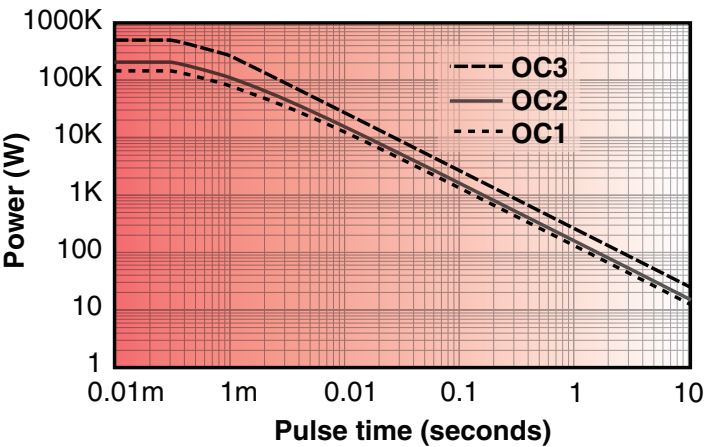
Dimensions in. / mm



Series	Diameter D $\pm .039 / \pm 1.0$	Length L $\pm .039 / \pm 1.0$	Length C maximum	Quantity per reel
OX	0.217 / 5.5	0.65 / 16.5	0.748 / 19.0	1000
OY	0.276 / 7.0	0.748 / 19.0	0.886 / 22.5	500
OC1	0.311 / 7.9	0.65 / 16.5	0.748 / 19.0	250
OC2	0.311 / 7.9	0.752 / 19.1	0.890 / 22.6	250
OC3	0.311 / 7.9	1.126 / 28.6	1.264 / 32.1	250

OX/OY Series Characteristics		
Terminals	Pb-free solder-coated axial	
Coating	Silicone ceramic	
Derating	Linear from 100% @ +70° C to 0% @ +200° C	
Operating Temp. Range	-40° C to +220° C	
Tolerance	±10% standard	
Power Rating	Based on 70° C free air rating	
Temperature Coefficient	-1300 ±300 ppm / °C	
	OX	OY
Max. Working Voltage	300V	400V
Dielectric Strength	500V	700V
Max. Overload Voltage	600V	800V
Max. Pulse Voltage¹	14KV	20KV
Pulse Tolerance, 100 pulses	1240V @ 52µF, 40J / 35 sec.	1640V @ 52µF, 70J / 35 sec.

OC Series Pulse Limiting Power Single Pulse



OC Series 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 - 800 ppm / °C		
	OC1	OC2	OC3
Max. Working Voltage	370V	450V	600V
Dielectric Strength	300V	700V	700V
Max. Overload Voltage	600V	900V	1200V
Max. Pulse Voltage¹	14KV	20KV	20KV