

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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OD/OF Series

Little Demon® Carbon Composition Molded 5% & 10% Tolerance





FEATURES

- Molded insulation for high dielectric strength
- Rugged construction
- High surge capabilities
- Comparable to "Mil" RC07, RC20, and RC32 types
- OD/OF Series available in E24 values; E12 values above $100K\Omega$

Ohmite's Little Demons are small, reliable carbon composition resistors with exceptional strength. They are made tough by a molding process that combines the terminals, insulation and resistive element into an integrated unit. Along with their small size, Little Demons perform with low noise, dissipate heat rapidly and offer high temperature stability.

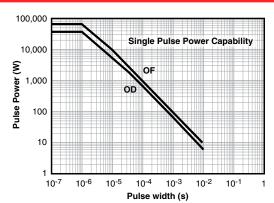
Color codes are readable even after prolonged use thanks to a very durable coating that resists abrasions and chipping normally associated with automatic insertion equipment.

SERIES SPECIFICATIONS

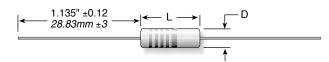
Series	Mil-R-11 Type	Wattage	Ohms	Tolerance	Max. Voltage	Dielectric VAC
OD	RC07	0.25	2.2Ω - <100K	±5%	250	500
			100K - 5.6M	±10%		
OF	RC20	0.50	2.2Ω - <100K	±5%	350	700
			100K - 20M	±10%		

CHARACTERISTICS

Terminals	Solder-coated copper terminal.	
Body	Molded Phenolic	
Tolerance	±5% (<100KΩ); ±10% (>100KΩ)	
Derating	Linearly from 100% @ +70°C to 0% @ 130°C	



DIMENSIONS



Series	Length max.	Diam. max.	Lead Dia.
OD	0.276 / 7.0	0.098 / 2.5	0.024/0.60
OF	0.406 /10.3	0.150 / 3.8	0.028/0.70

(continued)

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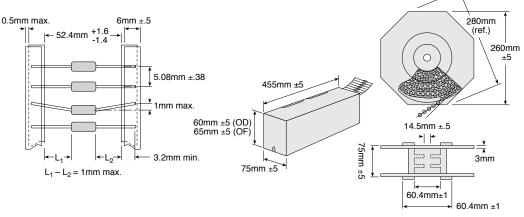
PACKAGING

All resistors are packaged in sealed poly bags with desiccant to maintain a consistent humidity during storage. If parts are removed from the protective plastic bag they should be used as soon as possible or resealed in the plastic bag.

OD Tape/Reel OF 5000 Qty./reel 3000 Reel size (mm) 260 260 Qty./carton 40,000 24,000 Gross carton wt. (kg) 0.04 0.04 Carton size (m³)

Ammo Box	OD	OF
Tape width (mm)	52	52
Qty./box	2000	2000
Qty./carton	30,000	30,000
Gross carton wt. (kg)	10	16
Carton size (m3)	0.03	0.05

Storage: Ohmite recommends storing carbon composition resistors in a controlled environment at a temperature of 5° to 35°C and relative humidity of less than 60%. Inventory should always be used on a first-in-first-out basis.



RESISTOR USE GUIDELINES

Carbon composition resistors are manufactured by extruding a blend of carbon and organic binders inside a phenolic outer body. The extrusion is cut to length, leads inserted, cured, and marked to form a finished resistor. The carbon and binder mixture is adjusted to produce different resistance values. The resistors are sorted for 5%, 10%, and 20% tolerance values.

Carbon composition resistors are able to withstand larger short-term pulses and higher voltages than film resistors and are virtually impervious to ESD events (Electro-static discharge). Carbon composition resistors are also sensitive to moisture and, therefore, storage recommendations should be adhered to. Generally, any moisture absorbed during storage will be "baked out" during the soldering operation. If the product is stored properly the resistance shift during the soldering operation will be minimal, less than 2% or 3%.

Carbon composition resistors are highly hygroscopic and changes in resistance value can occur if too much moisture is absorbed. For this reason, it is recommended not to use water or water-soluble solvents to clean these components. Alcohol or hydrocarbon solvents are recommended for rinsing.

BAKE PROCEDURE

A. Heat Treatment

110°C ±10°C 15 hours

B. Frequency of heat treatment

1 time only

C. Solder heat test after treatment

Solder

Type	Temp.	Time	Evaluation
OD	300°C	3 sec	within ±3%
0F	350°C	3 sec	within ±3%
*Depth	of Immersi	on: 3mm fro	om the resisto

Nin

*Depth of Immersion: 3mm from the resisto body

D. Cautions

Solderability: may be affected due to oxidization of lead wire Resistance value: some units may not completely recover to original value.

Soldering heat: some treated product may have substantial resistance change during soldering operation. It is recommended that parts be tested to evaluate soldering heat effects.

ORDERING INFORMATION

• OD/OF Series available in E24 values

