OD/OF Series

Little Demon® Carbon Composition Molded 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 E12 values
- ●5% Tolernace Discontinued August 2021

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 - 5.6M	±10%	250	500
OF	RC20	0.50	2.2Ω - 18M	±10%	350	700

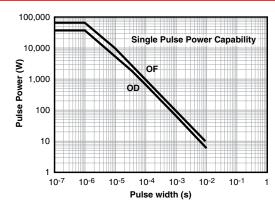
CHARACTERISTICS

Terminals Solder-coated copper terminal.

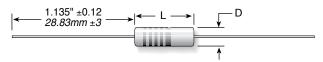
Body Molded Phenolic

Tolerance ±10%

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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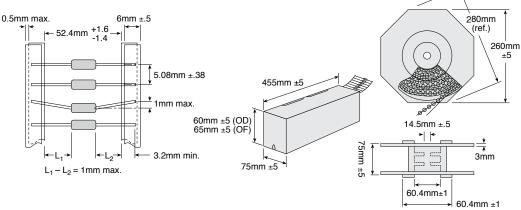
PACKAGING

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.

Tape/Reel	OD	OF
Qty./reel	5000	3000
Reel size (mm)	260	260
Qty./carton (40,000	24,000
Gross carton wt. (kg)	12	13
Carton size (m³)	0.04	0.04

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





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 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 AND CAUTIONS

A. Heat Treatment

110°C ±10°C 15 hours

B. Frequency of heat treatment

1 time only

C. Solder heat test after treatment

Caldar

Туре	Soluer Temp.	Time	Evaluation
OD	300°C	3 sec	within ±3%
0F	350°C	3 sec	within ±3%
*Denth	of Immerci	nn: /mm fr	nm the recicto

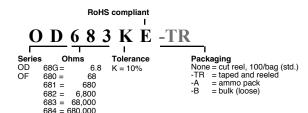
*Depth of Immersion: 4mm from the resistor body

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. Solder should not come in contact within 4mm of resistor body as this may cause a significant shift in resistance value due to high heat exposure.

ORDERING INFORMATION





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Ohmite:

OF124J OA104K OD222J OD220J OD22GJ OD224J OD103J OF150J OF151J OF154J OF153J OF131J OD561J OD471J OD473J OF122J OD122J OF392J OF270J OF273J OF272J OF390J OF274J OF394J OA151K OA150K OA103K OA105K OA102K OA101K OF474J OF470J OF472J OF471J OF22GJ OF203J OF473J OF47GJ OF393J OF271J OF27GJ OF391J OF152J OD152J OA122K OD221J OA393K OA391K OA390K OF331J OF33GJ OF333J OF221J OF220J OF222J OF224J OD180J OD104J OA471K OA474K OA470K OA473K OD470J OD474J OD472J OD47GJ OD394J OD27GJ OD392J OD272J OD270J OD274J OD391J OD393J OD273J OD390J OD271J OD332J OD330J OF332J OF334J OD105J OD102J OD101J OD33GJ OD333J OD331J OD153J OD150J OD154J OD151J OD181J OD203J OA184K OA333K OA22GK OA224K OA220K