OD/OF/OA Series

Little Demon[®] Carbon Composition Molded OD/OF Series (5% Tol.) OA Series (10%)



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
- OA Series available in E12 values



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.

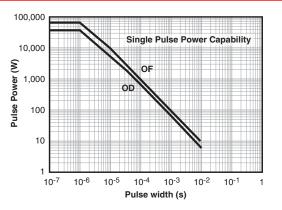
Color codes are readable even after prolonged use thanks to a very durable coating that resists abrasions and chipping normally associated with automatic insertion equipment.

SERIES SPECFICATIONS

Series	Wattage	Ohms	Tolerance	Max. Voltage	Dielectric VAC
OD	0.25	2.2-5.6M	±5%	250	500
OF	0.50	2.2-20M	±5%	350	700
OA	1.00	2.2-1M	±10%	500	1000

CHARACTERISTICS

Terminals	Solder-coated copper terminal.		
Body	Molded Phenolic		
Tolerance	±5% (OD/OF); ±10% (OA)		
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
OA	0.591 /15.0	0.236 / 6.0	0.035/0.92

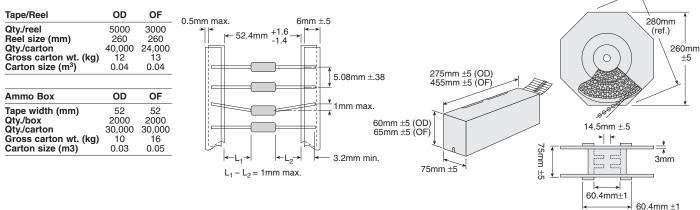


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PACKAGING

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. **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	C. Solder heat test after treatment			
110°C ±10°C 15 hours	Туре	Solder Temp.	Dip Time	Evaluation
B. Frequency of	OD	300°C	3 sec	within ±3%
heat treatment	OF	350°C	3 sec	within ±3%
1 time only	*Depth of Immersion: 3mm from the resistor body			

D. Cautions

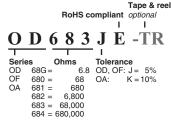
Solderability: may be affected due to oxidization of lead wire *Resistance value:* some units may not completely recover to original value.

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.

ORDERING INFORMATION

• OD/OF Series available in E24 values

• OA Series available in E12 values



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