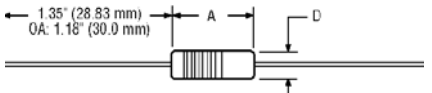


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Carbon Composition Molded Resistors



OD/OF/OA Series

- Features**
- Molded Insulation for High Dielectric Strength
 - High Surge Capabilities
 - Comparable to "Mil" RC07, RC20 and RC32 Types

Specifications
Material. Terminals: Solder-coated copper lead. **Body:** Molded phenolic.
Electrical. Tolerance: ±5% (OD/OF), ±10% (OA). **Derating:** Linearly from 100% @ +70°C to 0% @ 130°C.

Series	Dimensions — In. (mm)		Voltage	Max. VAC	Dielectric Lead Dia.
	Length	Max. Dia.			
OD	0.276 (7.0)	0.098 (7.0)	250	500	0.027 (0.69)
OF	0.406 (10.3)	0.150 (3.8)	350	700	0.029 (0.75)
OA	0.591 (15.0)	0.236 (6.0)	500	1000	0.035 (0.92)

OD Series — 5% Tolerance

Stock No.	Mfr.'s Type	Ohms	Watts	EACH		
				1-9	10-99	100-Up
296-5500	OD22GJ	2.2	0.25	.43	.39	.36
296-5502	OD27GJ	2.7	0.25	.43	.39	.36
296-5504	OD33GJ	3.3	0.25	.43	.39	.36
296-5506	OD47GJ	4.7	0.25	.43	.39	.36

OD Series — 5% Tolerance (continued)

Stock No.	Mfr.'s Type	Ohms	Watts	EACH		
				1-9	10-99	100-Up
296-5522	OD150J	15	0.25	.43	.39	.36
296-5526	OD180J	18	0.25	.43	.39	.36
296-5530	OD220J	22	0.25	.43	.39	.36
296-5536	OD270J	27	0.25	.43	.39	.36
296-5540	OD330J	33	0.25	.43	.39	.36
296-5542	OD390J	39	0.25	.43	.39	.36
296-5546	OD470J	47	0.25	.43	.39	.36
296-5514	OD101J	100	0.25	.43	.39	.36
296-5524	OD151J	150	0.25	.43	.39	.36
296-5528	OD181J	180	0.25	.43	.39	.36
296-5532	OD221J	220	0.25	.43	.39	.36
296-5534	OD271J	270	0.25	.43	.39	.36
296-5538	OD331J	330	0.25	.43	.39	.36
296-5544	OD391J	390	0.25	.43	.39	.36
296-5548	OD471J	470	0.25	.43	.39	.36
296-5562	OD102J	1000	0.25	.43	.39	.36
296-5564	OD122J	1200	0.25	.43	.39	.36
296-5566	OD152J	1500	0.25	.43	.39	.36
296-5570	OD222J	2200	0.25	.43	.39	.36
296-5572	OD272J	2700	0.25	.43	.39	.36
296-5574	OD332J	3300	0.25	.43	.39	.36
296-5576	OD392J	3900	0.25	.43	.39	.36
296-5578	OD472J	4700	0.25	.43	.39	.36
296-5586	OD103J	10000	0.25	.43	.39	.36
296-5590	OD153J	15000	0.25	.43	.39	.36
296-5594	OD203J	20000	0.25	.43	.39	.36
296-5596	OD273J	27000	0.25	.43	.39	.36
296-5598	OD333J	33000	0.25	.43	.39	.36
296-5600	OD393J	39000	0.25	.43	.39	.36
296-5602	OD473J	47000	0.25	.43	.39	.36
296-5610	OD104J	100000	0.25	.43	.39	.36
296-5614	OD154J	150000	0.25	.43	.39	.36
296-5618	OD224J	220000	0.25	.43	.39	.36
296-5620	OD274J	270000	0.25	.43	.39	.36
296-5624	OD394J	390000	0.25	.43	.39	.36
296-5626	OD474J	470000	0.25	.43	.39	.36
296-5628	OD105J	1000000	0.25	.43	.39	.36

OF Series — 5% Tolerance

296-5630	OF22GJ	2.2	0.50	.43	.39	.36
296-5632	OF27GJ	2.7	0.50	.43	.39	.36
296-5634	OF33GJ	3.3	0.50	.43	.39	.36
296-5636	OF47GJ	4.7	0.50	.43	.39	.36
296-5652	OF150J	15	0.50	.43	.39	.36
296-5660	OF220J	22	0.50	.43	.39	.36
296-5666	OF270J	27	0.50	.43	.39	.36
296-5670	OF330J	33	0.50	.43	.39	.36
296-5672	OF390J	39	0.50	.43	.39	.36
296-5676	OF470J	47	0.50	.43	.39	.36
296-5644	OF101J	100	0.50	.43	.39	.36
296-5654	OF151J	150	0.50	.43	.39	.36
296-5662	OF221J	220	0.50	.43	.39	.36
296-5664	OF271J	270	0.50	.43	.39	.36
296-5668	OF331J	330	0.50	.43	.39	.36

OF Series — 5% Tolerance (continued)

Stock No.	Mfr.'s Type	Ohms	Watts	EACH		
				1-9	10-99	100-Up
296-5674	OF391J	390	0.50	.43	.39	.36
296-5678	OF471J	470	0.50	.43	.39	.36
296-5692	OF102J	1000	0.50	.43	.39	.36
296-5694	OF122J	1200	0.50	.43	.39	.36
296-5696	OF152J	1500	0.50	.43	.39	.36
296-5700	OF222J	2200	0.50	.43	.39	.36
296-5702	OF272J	2700	0.50	.43	.39	.36
296-5704	OF332J	3300	0.50	.43	.39	.36
296-5706	OF392J	3900	0.50	.43	.39	.36
296-5708	OF472J	4700	0.50	.43	.39	.36
296-5716	OF103J	10000	0.50	.43	.39	.36
296-5720	OF153J	15000	0.50	.43	.39	.36
296-5724	OF203J	20000	0.50	.43	.39	.36
296-5726	OF273J	27000	0.50	.43	.39	.36
296-5728	OF333J	33000	0.50	.43	.39	.36
296-5730	OF393J	39000	0.50	.43	.39	.36
296-5732	OF473J	47000	0.50	.43	.39	.36
296-5740	OF104J	100000	0.50	.43	.39	.36
296-5742	OF124J	120000	0.50	.43	.39	.36
296-5744	OF154J	150000	0.50	.43	.39	.36
296-5748	OF224J	220000	0.50	.43	.39	.36
296-5750	OF274J	270000	0.50	.43	.39	.36
296-5752	OF334J	330000	0.50	.43	.39	.36
296-5754	OF394J	390000	0.50	.43	.39	.36
296-5756	OF474J	470000	0.50	.43	.39	.36
296-5758	OF105J	1000000	0.50	.43	.39	.36

OA Series — 10% Tolerance

296-5760	OA22GK	2.2	1.00	1.60	1.48	1.37
296-5762	OA27GK	2.7	1.00	1.60	1.48	1.37
296-5782	OA150K	15	1.00	1.60	1.48	1.37
296-5790	OA220K	22	1.00	1.41	1.36	1.33
296-5796	OA270K	27	1.00	1.60	1.48	1.37
296-5802	OA390K	39	1.00	1.60	1.48	1.37
296-5806	OA470K	47	1.00	1.22	1.18	1.15
296-5774	OA101K	100	1.00	1.60	1.48	1.37
296-5784	OA151K	150	1.00	1.60	1.48	1.37
296-5792	OA221K	220	1.00	1.60	1.48	1.37
296-5804	OA391K	390	1.00	1.60	1.48	1.37
296-5808	OA471K	470	1.00	1.60	1.48	1.37
296-5822	OA102K	1000	1.00	1.60	1.48	1.37
296-5824	OA122K	1200	1.00	1.60	1.48	1.37
296-5826	OA152K	1500	1.00	1.60	1.48	1.37
296-5830	OA222K	2200	1.00	1.60	1.48	1.37
296-5836	OA103K	10000	1.00	1.60	1.48	1.37
296-5856	OA273K	27000	1.00	1.60	1.48	1.37
296-5860	OA393K	39000	1.00	1.60	1.48	1.37
296-5862	OA473K	47000	1.00	1.60	1.48	1.37
296-5870	OA104K	100000	1.00	1.60	1.48	1.37
296-5876	OA184K	180000	1.00	1.60	1.48	1.37
296-5878	OA224K	220000	1.00	1.60	1.48	1.37
296-5886	OA474K	470000	1.00	1.60	1.48	1.37
296-5888	OA105K	1000000	1.00	1.60	1.48	1.37

OX/OY Series Ceramic Composition Resistors

- Features**
- Replaces 1 and 2 Watt Carbon Composition Resistors
 - Meets High Energy Density Demands
 - High Peak Power
 - 10% Tolerance

Specifications
Material. Terminals: Solder-coated axial leads. **Coating:** UL-94 VO approved silicone.

Derating. Linear: From 100% @ +70°C to 0% @ +200°C.

Electrical. Tolerance: ±10% standard. **Power Rating:** Based on 70°C free air rating. **Temperature Coefficient:** -1300 ±300 ppm/°C.

Dimensions

Series	Watts Max. @ 70°C	Resistance (Ω)		Dimensions — In. (mm)		Lead Diameter	Joules Max. *	Dielectric Withstanding Volts
		Min.	Max.	Length (L)	Diameter (D)			
OX	1	3.3	100K	0.748 (19.0)	0.256 (6.5)	0.030 (0.81)	50	500
OY	2	3.3	1M	0.886 (22.5)	0.315 (8.0)	0.040 (1.02)	80	700

*For a single impulse.

OX Series

Stock No.	Mfr.'s Type	Ohms	Watts	EACH		
				1-9	10-99	100-Up
296-5222	OX33GK	3.3	1.0	.85	.77	.68
296-5224	OX39GK	3.9	1.0	.83	.74	.67
296-5226	OX47GK	4.7	1.0	.83	.74	.67
296-5234	OX100K	10	1.0	.85	.76	.68
296-5240	OX180K	18	1.0	.83	.74	.67
296-5242	OX220K	22	1.0	.83	.74	.67
296-5244	OX270K	27	1.0	.83	.74	.67
296-5246	OX330K	33	1.0	.83	.74	.67
296-5248	OX390K	39	1.0	.83	.74	.67
296-5250	OX470K	47	1.0	.83	.74	.67
296-5258	OX101K	100	1.0	.85	.76	.68
296-5262	OX151K	150	1.0	.71	.69	.63

OX Series (continued)

Stock No.	Mfr.'s Type	Ohms	Watts	EACH		
				1-9	10-99	100-Up
296-5272	OX391K	390	1.0	.71	.69	.63
296-5282	OX102K	1000	1.0	.76	.74	.67
296-5290	OX222K	2200	1.0	.71	.69	.63
296-5292	OX272K	2700	1.0	.71	.69	.63
296-5296	OX392K	3900	1.0	.71	.69	.63
296-5298	OX472K	4700	1.0	.71	.69	.63
296-5306	OX103K	10000	1.0	.71	.69	.63
296-5308	OX123K	12000	1.0	.71	.69	.63
296-5310	OX153K	15000	1.0	.71	.69	.63
296-5314	OX223K	22000	1.0	.71	.69	.63
296-5330	OX104K	100000	1.0	.71	.69	.63
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OY Series

Stock No.	Mfr.'s Type	Ohms	Watts	EACH		
				1-9	10-99	100-Up
296-5332	OY33GK	3.3	2.0	1.11	.99	.89
296-5334	OY39GK	3.9	2.0	1.11	.99	.89
296-5336	OY47GK	4.7	2.0	1.11	.99	.89
296-5344	OY100K	10	2.0	1.11	.99	.89
296-5346	OY120K	12	2.0	1.11	.99	.89
296-5348	OY150K	15	2.0	1.11	.99	.89
296-5352	OY220K	22	2.0	1.11	.99	.89
296-5354	OY27K	27	2.0	1.11	.99	.89
296-5358	OY30K	30	2.0	1.11	.99	.89
296-5360	OY470K	47	2.0	1.11	.99	.89
296-5364	OY101K	100	2.0	1.11	.99	.89
296-5366	OY121K	120	2.0	1.09	.97	.88
296-5368	OY151K	150	2.0	1.09	.97	.88
296-5372	OY221K	220	2.0	1.09	.97	.88
296-5374	OY330K	330	2.0	1.09	.97	.88
296-5378	OY391K	390	2.0	1.09	.97	.88
296-5380	OY471K	470	2.0	1.09	.97	.88
296-5388	OY102K	1000	2.0	1.09	.97	.88
296-5392	OY152K	1500	2.0	1.09	.97	.88
296-5396	OY222K	2200	2.0	1.09	.97	.88
296-5398	OY323K	3300	2.0	1.09	.97	.88
296-5402	OY390K	3900	2.0	1.09	.97	.88
296-5404	OY472K	4700	2.0	1.09	.97	.88
296-5412	OY103K	10000	2.0	1.09	.97	.88
296-5414	OY123K	12000	2.0	1.09	.97	.88
296-5416	OY153K	15000	2.0	1.09	.97	.88
296-5420	OY223K	22000	2.0	1.09	.97	.88
296-5422	OY273K	27000	2.0	1.09	.97	.88
296-5424	OY333K	33000	2.0	1.09	.97	.88
296-5426	OY393K	39000	2.0	1.09	.97	.88
296-5428	OY473K	47000	2.0	1.09	.97	.88
296-5436	OY104K	100000	2.0	1.11	.99	.90
296-5438	OY124K	120000	2.0	1.08	.99	.92
296-5440	OY154K	150000	2.0	1.18	.09	1.00
296-5444	OY224K	200000	2.0	1.08	.99	.92
296-5446	OY274K	230000	2.0	1.08	.99	.92
296-5448	OY334K	330000	2.0	1.08	.99	.92
296-5450	OY394K	390000	2.0	1.08	.99	.92
296-5452	OY474K	470000	2.0	1.08	.99	.92
296-5460	OY105K	1 M	2.0	1.18	1.09	1.00