



OX / OY Resistor Series - Ceramic Composition

Features: • Replaces 1 and 2 watt carbon composition resistors • Meets high energy density demands • High peak power • 10% Tolerance.

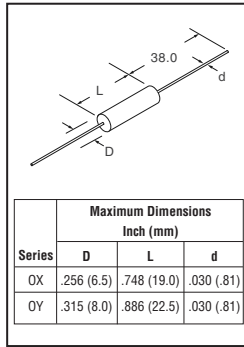
Material: • Terminals: Solder-coated axial leads • Coating: UL-94 V0 approved silicone.

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

Electrical: • Resistance Tolerance: ±10% standard • Power Rating: Based on 70°C free air rating • Temperature Coefficient: -1300 ±30ppm/°C • Dielectric Withstanding Voltage: 500VAC (750VAC for OY Series) • Joules Maximum (For a single impulse): 50 (80 for OY Series)

Resistance Range (Ohms)	Wattage	Joules Max.**	Digi-Key* Part No.	1	100	1,000
3.3 - 100	1	50	OX(Code)-ND	.77	.62	.50
120 - 100K	1	50	OX(Code)-ND	.76	.61	.49
3.3 - 100	2	80	OY(Code)-ND	1.07	.86	.70
120 - 100K	2	80	OY(Code)-ND	1.00	.80	.65
120K - 1MEG	2	80	OY(Code)-ND	1.17	.93	.76

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ** For a single impulse.



RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
3.3 (33GK)	47 (470K)	680 (681K)	10K (103K)	150K (154K)
3.9 (39GK)	56 (560K)	820 (821K)	12K (123K)	180K (184K)
4.7 (47GK)	68 (680K)	1K (102K)	15K (153K)	220K (224K)
5.6 (56GK)	82 (820K)	1.2K (122K)	18K (183K)	270K (274K)
6.8 (68GK)	100 (101K)	1.5K (152K)	22K (223K)	330K (334K)
8.2 (82GK)	120 (121K)	1.8K (182K)	27K (273K)	390K (394K)
10 (100K)	150 (151K)	2.2K (222K)	33K (333K)	470K (474K)
12 (120K)	180 (181K)	2.7K (272K)	39K (393K)	560K (564K)
15 (150K)	220 (221K)	3.3K (332K)	47K (473K)	680K (684K)
18 (180K)	270 (271K)	3.9K (392K)	56K (563K)	820K (824K)
22 (220K)	330 (331K)	4.7K (472K)	68K (683K)	1MEG (105K)
27 (270K)	390 (391K)	5.6K (562K)	82K (823K)	
33 (330K)	470 (471K)	6.8K (682K)	100K (104K)	
39 (390K)	560 (561K)	8.2K (822K)	120K (124K)	

Little Demon® Carbon Composition Molded Resistors

OD and OF Series - 5% Tolerance, OA Series - 10% Tolerance

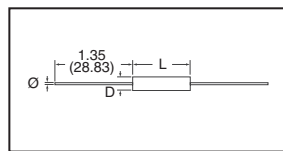
Little Demons are small, reliable carbon composition resistors with exceptional strength. They are made tough by a molding process that combines the leads, insulation and resistive element into an integrated unit. Along with their small size, Little Demons perform with low noise, dissipate heat rapidly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

Features: • Molded insulation for high dielectric strength • Rugged construction • High surge capabilities • Comparable to "Mil" RC07, RC20, and RC32 types

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



RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GJ)	15 (150J)	120 (121J)	1.0K (102J)	10K (103J)	68K (683J)	560K (564J)
2.4 (24GJ)	18 (180J)	150 (151J)	1.2K (122J)	12K (123J)	75K (753J)	620K (624J)
2.7 (27GJ)	20 (200J)	180 (181J)	1.5K (152J)	15K (153J)	82K (823J)	680K (684J)
3.0 (30GJ)	22 (220J)	200 (201J)	1.8K (182J)	18K (183J)	100K (104J)	750K (754J)
3.3 (33GJ)	24 (240J)	220 (221J)	2.2K (222J)	20K (203J)	120K (124J)	820K (824J)
3.6 (36GJ)	27 (270J)	240 (241J)	2.4K (242J)	22K (223J)	150K (154J)	1.0M (105J)
3.9 (39GJ)	30 (300J)	270 (271J)	2.7K (272J)	24K (243J)	180K (184J)	1.5M (155J)
4.3 (43GJ)	33 (330J)	300 (301J)	3.0K (302J)	27K (273J)	200K (204J)	2.0M (205J)
4.7 (47GJ)	36 (360J)	330 (331J)	3.3K (332J)	30K (303J)	220K (224J)	2.4M (245J)
5.1 (51GJ)	39 (390J)	360 (361J)	3.6K (362J)	33K (333J)	270K (274J)	3.0M (305J)
5.6 (56GJ)	43 (430J)	390 (391J)	3.9K (392J)	36K (363J)	300K (304J)	3.6M (365J)
6.2 (62GJ)	47 (470J)	430 (431J)	4.3K (432J)	39K (393J)	330K (334J)	4.3M (435J)
6.8 (68GJ)	56 (560J)	470 (471J)	4.7K (472J)	43K (433J)	360K (364J)	4.7M (475J)
7.5 (75GJ)	62 (620J)	560 (561J)	5.6K (562J)	47K (473J)	390K (394J)	5.6M (565J)
8.2 (82GJ)	75 (750J)	620 (621J)	6.2K (622J)	51K (513J)	430K (434J)	
10 (100J)	82 (820J)	750 (751J)	7.5K (752J)	56K (563J)	470K (474J)	
12 (120J)	100 (101J)	820 (821J)	8.2K (822J)	62K (623J)	510K (514J)	

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GJ)	18 (180J)	180 (181J)	1.8K (182J)	20K (203J)	150K (154J)	1.5M (155J)
2.4 (24GJ)	20 (200J)	200 (201J)	2.2K (222J)	22K (223J)	180K (184J)	2.0M (205J)
2.7 (27GJ)	22 (220J)	220 (221J)	2.4K (242J)	24K (243J)	200K (204J)	2.4M (245J)
3.0 (30GJ)	24 (240J)	240 (241J)	2.7K (272J)	27K (273J)	220K (224J)	3.0M (305J)
3.3 (33GJ)	27 (270J)	270 (271J)	3.0K (302J)	30K (303J)	270K (274J)	3.6M (365J)
3.6 (36GJ)	30 (300J)	300 (301J)	3.3K (332J)	33K (333J)	300K (304J)	4.3M (435J)
3.9 (39GJ)	33 (330J)	330 (331J)	3.6K (362J)	36K (363J)	330K (334J)	4.7M (475J)
4.3 (43GJ)	36 (360J)	360 (361J)	3.9K (392J)	39K (393J)	360K (364J)	5.6M (565J)
4.7 (47GJ)	39 (390J)	390 (391J)	4.3K (432J)	43K (433J)	390K (394J)	6.8M (685J)
5.1 (51GJ)	43 (430J)	430 (431J)	4.7K (472J)	47K (473J)	430K (434J)	7.5M (755J)
5.6 (56GJ)	47 (470J)	470 (471J)	5.6K (562J)	51K (513J)	470K (474J)	8.2M (825J)
6.2 (62GJ)	56 (560J)	560 (561J)	6.2K (622J)	56K (563J)	510K (514J)	10M (106J)
6.8 (68GJ)	62 (620J)	620 (621J)	7.5K (752J)	62K (623J)	560K (564J)	12M (126J)
7.5 (75GJ)	75 (750J)	750 (751J)	8.2K (822J)	68K (683J)	620K (624J)	15M (156J)
8.2 (82GJ)	82 (820J)	820 (821J)	10K (102J)	75K (753J)	680K (684J)	18M (186J)
10 (100J)	100 (101J)	1.0K (102J)	12K (123J)	82K (823J)	750K (754J)	20M (206J)
12 (120J)	120 (121J)	1.2K (122J)	15K (153J)	100K (104J)	820K (824J)	
15 (150J)	150 (151J)	1.5K (152J)	18K (183J)	120K (124J)	1.0M (105J)	

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GK)	27 (270K)	270 (271K)	2.7K (272K)	27K (273K)	270K (274K)
2.7 (27GK)	33 (330K)	330 (331K)	3.3K (332K)	33K (333K)	330K (334K)
3.3 (33GK)	39 (390K)	390 (391K)	3.9K (392K)	39K (393K)	390K (394K)
4.7 (47GK)	47 (470K)	470 (471K)	4.7K (472K)	47K (473K)	470K (474K)
5.6 (56GK)	56 (560K)	560 (561K)	5.6K (562K)	56K (563K)	560K (564K)
6.8 (68GK)	68 (680K)	680 (681K)	6.8K (682K)	68K (683K)	680K (684K)
8.2 (82GK)	82 (820K)	820 (821K)	8.2K (822K)	82K (823K)	820K (824K)
10 (100K)	100 (101K)	10K (102K)	10K (103K)	100K (104K)	1.0M (105K)
12 (120K)	120 (121K)	12K (122K)	12K (123K)	120K (124K)	
15 (150K)	150 (151K)	15K (152K)	15K (153K)	150K (154K)	
18 (180K)	180 (181K)	18K (182K)	18K (183K)	180K (184K)	
22 (220K)	220 (221K)	22K (222K)	22K (223K)	220K (224K)	

Resistance Range (Ohms)	Wattage	Tolerance	Digi-Key* Part No.	1	Price Each	500
2.2 - 5.6M	.25	5%	OD(Code)-ND	.42	.35	.32
2.2 - 20M	.50	5%	OF(Code)-ND	.54	.45	.41
2.2 - 1.0M	1	10%	OA(Code)-ND	1.92	1.75	1.58

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Ceramic Composition Resistors

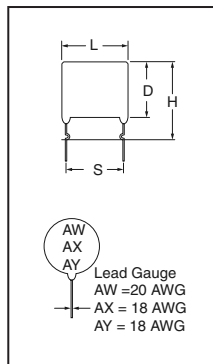
The "A" Series of non-inductive, ceramic composite resistors are designed for a variety of applications where high energy handling capabilities are crucial. Designed for use in motor drives, UPS and other power conversion systems, these resistors are ideal for any application which is subject to surges, high peak power, impulse energy, or inrush current limiting.

Material Specifications:

- Resistance Element: Bulk Ceramic
- Terminals: Solder coated radial leads (axial lead version available upon request)
- Coating: UL94V0, solvent resistant epoxy

Electrical Specifications:

- Tolerance: ± 10% Standard
- Derating: Derates linearly from 100% @ 50°C to 0% @ 150°C
- Temperature Rise: 100°C @ 100% rated power, 50°C ambient



RESISTANCE VALUE CHART

Series	Dimensions - Inch (mm)				Value (Code)	Value (Code)	Value (Code)
	L Max.	D Max.	H Max.	S Norm.			
AW	.78 (20)	.51 (13)	.87 (22)	.69 (17.5)	4.7 (47G)	1.0 (10G)	2.2 (22G)
AX	.59 (15)	.83 (21)	1.22 (31)	.49 (12.5)	6.8 (68G)	2.2 (22G)	3.3 (33G)
AY	.98 (25)	.83 (21)	1.22 (31)	.89 (22.5)	10 (100)	3.3 (33G)	4.7 (47G)
					15 (150)	4.7 (47G)	10 (100)
					22 (220)	10 (100)	15 (150)
					33 (330)	22 (220)	33 (330)
					47 (470)	33 (330)	39 (390)
					56 (560)	47 (470)	47 (470)
					68 (680)	68 (680)	68 (680)
					100 (101)	100 (101)	100 (101)

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	1	Price Each	250
4.7 - 100	2.5W	AW(Code)K-ND	8.45	8.03	7.61
1.0 - 100	3.5W	AX(Code)K-ND	9.25	8.79	8.33
2.2 - 100	4.5W	AY(Code)K-ND	9.75	9.26	8.78

*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

More Product Available Online: www.digikey.com

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