

40 Series

Ohmicone® Silicone-Ceramic Conformal Axial Terminal Wirewound 1% and 5% Tolerance Standard



Ohmite 40 Series resistors are the most economical conformal silicone-ceramic coated resistors offered. These all-welded units are characterized by their low temperature coefficients and resistance to thermal shock, making them ideal for a wide range of electrical and electronic applications.

Units with 1% and 5% tolerances are identical in construction and electrical specifications. Durable but economical 40 Series resistors exceed industry requirements for quality.

FEATURES

- Economical
- Applications include commercial, industrial and communications equipment
- Stability under high temperature conditions
- All-welded construction
- RoHS compliant; add "E" suffix to part number to specify.

SERIES SPECIFICATIONS

Series	Wattage	Ohms	Voltage
41	1.0	0.10-6K	150
42	2.0	0.10-8K	100
43	3.0	0.10-20K	200
45	5.0	0.10-70K	460
47	7.0	0.10-80K	670
40	10.0	0.10-150K	1000

Non-Inductive versions available. Insert "N" before tolerance code.
Example: 42NJ27R

CHARACTERISTICS

Coating	Conformal silicone-ceramic.
Core	Ceramic.
Terminals	Solder-coated copper clad axial. RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu
Derating	Linearly from 100% @ +25°C to 0% @ +275°C.
Tolerance	±5% (J type), ±1% (F type) (other tolerances available).
Power rating	Based on 25°C free air rating
Overload	Under 5 watts: 5 times rated wattage for 5 seconds. 5 watts and over: 10 times rated wattage for 5 seconds.
Temperature coefficient	Under 1Ω: ±90 ppm/°C; 1Ω to 9.99Ω: ±50 ppm/°C; 10Ω and over: ±20 ppm/°C
Operating temp. range	-55°C to 275°C

DIMENSIONS

(in./mm max.)



Series	Wattage	Length	Diam.	Lead ga.
41	1.0	0.437 / 11.1	0.125 / 3.2	24
42	2.0	0.406 / 10.3	0.219 / 5.6	20
43	3.0	0.593 / 15.1	0.219 / 5.6	20
45	5.0	0.937 / 23.8	0.343 / 8.7	18
47	7.0	1.280 / 32.5	0.343 / 8.7	18
40	10.0	1.900 / 48.3	0.406 / 10.3	18

(continued)

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ORDERING INFORMATION

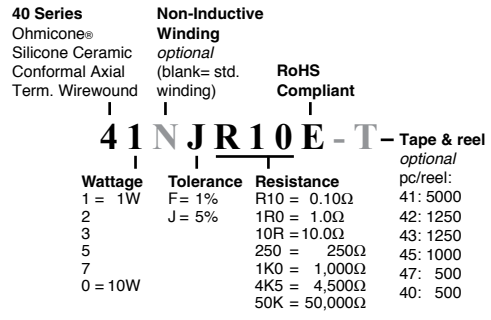
Standard part numbers

Ohmic value	Wattage and Tolerance						Ohmic value	Wattage and Tolerance						Ohmic value	Wattage and Tolerance									
	1% Tolerance			5% Tolerance				1% Tolerance			5% Tolerance				1% Tolerance			5% Tolerance						
	Part No. Prefix Suffix	1	3	5	10		Part No. Prefix Suffix	1	3	5	10		Part No. Prefix Suffix	1	3	5	10		Part No. Prefix Suffix	1	3	5	10	
0.1	R10	✓	✓	✓	✓		68	68R	✓	✓	✓	✓	2,200	2K2	✓	✓	✓	✓	2,500	2K5	✓	✓	✓	✓
0.15	R15	✓	✓	✓	✓		75	75R	✓	✓	✓	✓	2,700	2K7	✓	✓	✓	✓	3,000	3K0	✓	✓	✓	✓
0.2	R20	✓	✓	✓	✓		82	82R	✓	✓	✓	✓	3,300	3K3	✓	✓	✓	✓	3,500	3K5	✓	✓	✓	✓
0.25	R25	✓	✓	✓	✓		100	100	✓	✓	✓	✓	4,000	4K0	✓	✓	✓	✓	4,500	4K5	✓	✓	✓	✓
0.3	R30	✓	✓	✓	✓		120	120	✓	✓	✓	✓	4,700	4K7	✓	✓	✓	✓	5,000	5K0	✓	✓	✓	✓
0.33	R33	✓	✓	✓	✓		125	125	✓	✓	✓	✓	6,000	6K0	✓	✓	✓	✓	6,800	6K8	✓	✓	✓	✓
0.4	R40	✓	✓	✓	✓		150	150	✓	✓	✓	✓	7,000	7K0	✓	✓	✓	✓	7,500	7K5	✓	✓	✓	✓
0.5	R50	✓	✓	✓	✓		180	180	✓	✓	✓	✓	8,000	8K0	✓	✓	✓	✓	9,000	9K0	✓	✓	✓	✓
0.75	R75	✓	✓	✓	✓		200	200	✓	✓	✓	✓	10,000	10K	✓	✓	✓	✓	12,000	12K	✓	✓	✓	✓
1	R100	✓	✓	✓	✓		220	220	✓	✓	✓	✓	13,000	13K	✓	✓	✓	✓	15,000	15K	✓	✓	✓	✓
1.5	R150	✓	✓	✓	✓		225	225	✓	✓	✓	✓	17,000	17K	✓	✓	✓	✓	20,000	20K	✓	✓	✓	✓
2	R200	✓	✓	✓	✓		250	250	✓	✓	✓	✓	22,000	22K	✓	✓	✓	✓	25,000	25K	✓	✓	✓	✓
2.2	R220	✓	✓	✓	✓		270	270	✓	✓	✓	✓	30,000	30K	✓	✓	✓	✓	33,000	33K	✓	✓	✓	✓
3	R300	✓	✓	✓	✓		300	300	✓	✓	✓	✓	35,000	35K	✓	✓	✓	✓	40,000	40K	✓	✓	✓	✓
4	R400	✓	✓	✓	✓		330	330	✓	✓	✓	✓	40,000	40K	✓	✓	✓	✓	50,000	50K	✓	✓	✓	✓
5	R500	✓	✓	✓	✓		350	350	✓	✓	✓	✓												
7.5	R750	✓	✓	✓	✓		390	390	✓	✓	✓	✓												
10	R1000	✓	✓	✓	✓		400	400	✓	✓	✓	✓												
12	R1200	✓	✓	✓	✓		450	450	✓	✓	✓	✓												
15	R1500	✓	✓	✓	✓		470	470	✓	✓	✓	✓												
18	R1800	✓	✓	✓	✓		500	500	✓	✓	✓	✓												
20	R2000	✓	✓	✓	✓		560	560	✓	✓	✓	✓												
22	R2200	✓	✓	✓	✓		600	600	✓	✓	✓	✓												
25	R2500	✓	✓	✓	✓		680	680	✓	✓	✓	✓												
27	R2700	✓	✓	✓	✓		750	750	✓	✓	✓	✓												
30	R3000	✓	✓	✓	✓		800	800	✓	✓	✓	✓												
33	R3300	✓	✓	✓	✓		820	820	✓	✓	✓	✓												
35	R3500	✓	✓	✓	✓		900	900	✓	✓	✓	✓												
39	R3900	✓	✓	✓	✓		1,000	1K0	✓	✓	✓	✓												
40	R4000	✓	✓	✓	✓		1,100	1K1	✓	✓	✓	✓												
47	R4700	✓	✓	✓	✓		1,200	1K2	✓	✓	✓	✓												
50	R5000	✓	✓	✓	✓		1,500	1K5	✓	✓	✓	✓												
56	R5600	✓	✓	✓	✓		1,800	1K8	✓	✓	✓	✓												
62	R6200	✓	✓	✓	✓		2,000	2K0	✓	✓	✓	✓												

Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.

✓ = Standard values

✧ = Non-standard values subject to minimum handling charge per item





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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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