

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							
	Part No. Prefix ▶ Suffix ▼	1% Tolerance		5% Tolerance			Part No. Prefix ▶ Suffix ▼	1% Tolerance		5% Tolerance			Part No. Prefix ▶ Suffix ▼	1% Tolerance		5% Tolerance				
		1	3	5	10			1	2	3	5			10	1	2	3	5	10	1
0.1 — R10	✓	✓	✓	✓	✓	68 — 68R	✓	✓	✓	✓	✓	2,200 — 2K2	✓	✓	✓	✓	✓	✓	✓	✓
0.15 — R15	✓	✓	✓	✓	✓	75 — 75R	✓	✓	✓	✓	✓	2,500 — 2K5	✓	✓	✓	✓	✓	✓	✓	✓
0.2 — R20	✓	✓	✓	✓	✓	82 — 82R	✳	✓	✓	✓	✓	2,700 — 2K7	✳	✳	✓	✓	✓	✓	✓	✓
0.25 — R25	✓	✓	✓	✓	✓	100 — 100	✓	✓	✓	✓	✓	3,000 — 3K0	✓	✓	✓	✓	✓	✓	✓	✓
0.3 — R30	✓	✓	✓	✓	✓	120 — 120	✳	✓	✓	✓	✓	3,300 — 3K3	✓	✓	✓	✓	✓	✓	✓	✓
0.33 — R33						125 — 125	✓	✳	✳	✓	✓	3,500 — 3K5								✳
0.4 — R40						150 — 150	✓	✓	✓	✳	✓	3,900 — 3K9								✳
0.5 — R50	✓	✓	✓	✓	✓	180 — 180	✓	✓	✳	✓	✓	4,000 — 4K0								✓
0.75 — R75	✓	✳	✓	✓	✓	200 — 200	✓	✓	✓	✓	✓	4,500 — 4K5	✓	✓	✓	✓	✓	✓	✓	✳
1 — 1R0	✓	✓	✓	✓	✓	220 — 220	✓	✓	✳	✓	✓	4,700 — 4K7	✓	✓	✓	✓	✓	✓	✓	✳
1.5 — 1R5	✓	✓	✓	✓	✓	225 — 225	✳	✳	✓	✓	✓	5,000 — 5K0								✓
2 — 2R0	✓	✓	✓	✓	✓	250 — 250	✓	✓	✓	✓	✓	6,000 — 6K0								✓
2.2 — 2R2	✓	✓	✓	✓	✓	270 — 270	✓	✓	✳	✓	✓	6,800 — 6K8								✓
3 — 3R0	✓	✓	✓	✳	✓	300 — 300	✓	✳	✓	✓	✓	7,000 — 7K0								✓
4 — 4R0	✓	✓	✓	✓	✓	330 — 330	✓	✳	✳	✓	✓	7,500 — 7K5								✓
5 — 5R0	✓	✓	✓	✓	✓	350 — 350	✳	✓	✳	✓	✓	8,000 — 8K0								✓
7.5 — 7R5	✓	✓	✓	✓	✓	390 — 390	✳	✓	✳	✓	✓	9,000 — 9K0								✓
10 — 10R	✓	✓	✓	✓	✓	400 — 400	✓	✓	✓	✳	✓	10,000 — 10K	✓	✓	✓	✓	✓	✓	✓	✓
12 — 12R	✳	✓	✓	✓	✓	450 — 450	✳	✓	✓	✓	✓	12,000 — 12K								✓
15 — 15R	✓	✓	✓	✳	✓	470 — 470	✓	✓	✓	✓	✓	13,000 — 13K								✓
18 — 18R	✳	✓	✓	✳	✓	500 — 500	✓	✓	✓	✓	✓	15,000 — 15K								✓
20 — 20R	✓	✓	✓	✓	✓	560 — 560	✓	✓	✓	✓	✓	17,000 — 17K								✓
22 — 22R	✓	✓	✓	✳	✓	600 — 600	✓	✓	✓	✓	✓	20,000 — 20K								✓
25 — 25R	✓	✓	✓	✳	✓	680 — 680	✓	✓	✳	✓	✓	22,000 — 22K								✓
27 — 27R	✳	✓	✓	✓	✓	750 — 750	✓	✓	✓	✓	✓	25,000 — 25K								✓
30 — 30R	✓	✓	✓	✓	✓	800 — 800	✓	✓	✓	✓	✓	30,000 — 30K								✓
33 — 33R	✓	✓	✓	✓	✓	820 — 820	✓	✓	✓	✓	✓	33,000 — 33K								✓
35 — 35R	✓	✓	✳	✓	✓	900 — 900	✓	✓	✳	✓	✓	35,000 — 35K								✓
39 — 39R	✓	✓	✓	✳	✓	1,000 — 1K0	✓	✓	✓	✓	✓	40,000 — 40K								✓
40 — 40R	✓	✓	✓	✓	✓	1,100 — 1K1	✓	✓	✓	✓	✓	50,000 — 50K								✓
47 — 47R	✓	✓	✓	✳	✓	1,200 — 1K2	✓	✓	✓	✓	✓									✓
50 — 50R	✓	✓	✓	✓	✓	1,500 — 1K5	✓	✓	✓	✓	✓									✓
56 — 56R	✓	✓	✓	✓	✓	1,800 — 1K8	✓	✓	✓	✓	✓									✓
62 — 62R	✓	✓	✓	✓	✓	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

40 Series
 Ohmicone®
 Silicone Ceramic
 Conformal Axial
 Term. Wirewound

Non-Inductive Winding
optional
 (blank= std. winding)

RoHS Compliant

41 N J R 10 E - T — Tape & reel *optional* pc/reel:

Wattage	Tolerance	Resistance	41: 5000
1 = 1W	F = 1%	R10 = 0.10Ω	42: 1250
2	J = 5%	1R0 = 1.0Ω	43: 1250
3		10R = 10.0Ω	45: 1000
5		250 = 250Ω	47: 500
7		1K0 = 1,000Ω	40: 500
0 = 10W		4K5 = 4,500Ω	
		50K = 50,000Ω	





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- 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);
- Экспресс доставка в любую точку России;
- 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.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- 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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