

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)

40 Series

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

ORDERING INFORMATION

Standard part numbers

		Wattage and Tolerance										Wattage and Tolerance										Wattage and Tolerance																			
		1% Tolerance					5% Tolerance					1% Tolerance					5% Tolerance					1% Tolerance					5% Tolerance														
Ohmic value	Part No.	Prefix		Suffix		1		3		5		10		Ohmic value	Part No.	Prefix		Suffix		1		3		5		10		Ohmic value	Part No.	Prefix		Suffix		1		3		5		10	
	1	3	5	10	1	2	3	5	10	1	2	3	5		10	1	2	3	5	10	1	2	3	5	10	1	2		3	5	10	1	2	3	5	10					
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					✓	✓	✓	✓	✓	✓	✓	✓ = Standard values ✘ = Non-standard values subject to minimum handling charge per item															
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.

40 Series
Ohmicone[®]
Silicone Ceramic
Conformal Axial
Term. Wirewound

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

RoHS
Compliant

41NJR10E-T

Wattage

1 = 1W

2

3

5

7

0 = 10W

Tolerance

F = 1%

J = 5%

Resistance

R10 = 0.10Ω

1R0 = 1.0Ω

10R = 10.0Ω

250 = 250Ω

1K0 = 1,000Ω

4K5 = 4,500Ω

50K = 50,000Ω

Tape & reel
optional
pc/reel:

41: 5000

42: 1250

43: 1250

45: 1000

47: 500

40: 500



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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