

40 Series

Ohmite® 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					
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									
50	50R	✓	✓	✓	✓	1,500	1K5	✓	✓	✓	✓	✳ = Non-standard values subject to minimum handling charge per item									
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 - Tape & reel optional pc/reel

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

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- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru