

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				
0.1 —R10	41F	1	✓	✓	✓	✓	68 —68R	41F	1	✓	✓	✓	✓	2,200 —2K2	41F	1	✓	✓	✓	✓
0.15 —R15	43F	3	✓	✓	✓	✓	75 —75R	43F	3	✓	✓	✓	✓	2,500 —2K5	43F	3	✓	✓	✓	✓
0.2 —R20	45F	5	✓	✓	✓	✓	82 —82R	45F	5	✓	✓	✓	✓	2,700 —2K7	45F	5	✓	✓	✓	✓
0.25 —R25	40F	10	✓	✓	✓	✓	100 —100	40F	10	✓	✓	✓	✓	3,000 —3K0	40F	10	✓	✓	✓	✓
0.3 —R30	41J	1	✓	✓	✓	✓	120 —120	41J	1	✓	✓	✓	✓	3,300 —3K3	41J	1	✓	✓	✓	✓
0.33 —R33	42J	2	✓	✓	✓	✓	125 —125	42J	2	✓	✓	✓	✓	3,500 —3K5	42J	2	✓	✓	✓	✓
0.4 —R40	43J	3	✓	✓	✓	✓	150 —150	43J	3	✓	✓	✓	✓	3,900 —3K9	43J	3	✓	✓	✓	✓
0.5 —R50	45J	5	✓	✓	✓	✓	180 —180	45J	5	✓	✓	✓	✓	4,000 —4K0	45J	5	✓	✓	✓	✓
0.75 —R75	40J	10	✓	✓	✓	✓	200 —200	40J	10	✓	✓	✓	✓	4,500 —4K5	40J	10	✓	✓	✓	✓
1 —1R0	41J	1	✓	✓	✓	✓	220 —220	41J	1	✓	✓	✓	✓	4,700 —4K7	41J	1	✓	✓	✓	✓
1.5 —1R5	42J	2	✓	✓	✓	✓	225 —225	42J	2	✓	✓	✓	✓	5,000 —5K0	42J	2	✓	✓	✓	✓
2 —2R0	43J	3	✓	✓	✓	✓	250 —250	43J	3	✓	✓	✓	✓	6,000 —6K0	43J	3	✓	✓	✓	✓
2.2 —2R2	45J	5	✓	✓	✓	✓	270 —270	45J	5	✓	✓	✓	✓	6,800 —6K8	45J	5	✓	✓	✓	✓
3 —3R0	40J	10	✓	✓	✓	✓	300 —300	40J	10	✓	✓	✓	✓	7,000 —7K0	40J	10	✓	✓	✓	✓
4 —4R0	41J	1	✓	✓	✓	✓	330 —330	41J	1	✓	✓	✓	✓	7,500 —7K5	41J	1	✓	✓	✓	✓
5 —5R0	42J	2	✓	✓	✓	✓	350 —350	42J	2	✓	✓	✓	✓	8,000 —8K0	42J	2	✓	✓	✓	✓
7.5 —7R5	43J	3	✓	✓	✓	✓	390 —390	43J	3	✓	✓	✓	✓	9,000 —9K0	43J	3	✓	✓	✓	✓
10 —10R	45J	5	✓	✓	✓	✓	400 —400	45J	5	✓	✓	✓	✓	10,000 —10K	45J	5	✓	✓	✓	✓
12 —12R	40J	10	✓	✓	✓	✓	450 —450	40J	10	✓	✓	✓	✓	12,000 —12K	40J	10	✓	✓	✓	✓
15 —15R	41J	1	✓	✓	✓	✓	470 —470	41J	1	✓	✓	✓	✓	13,000 —13K	41J	1	✓	✓	✓	✓
18 —18R	42J	2	✓	✓	✓	✓	500 —500	42J	2	✓	✓	✓	✓	15,000 —15K	42J	2	✓	✓	✓	✓
20 —20R	43J	3	✓	✓	✓	✓	560 —560	43J	3	✓	✓	✓	✓	17,000 —17K	43J	3	✓	✓	✓	✓
22 —22R	45J	5	✓	✓	✓	✓	600 —600	45J	5	✓	✓	✓	✓	20,000 —20K	45J	5	✓	✓	✓	✓
25 —25R	40J	10	✓	✓	✓	✓	680 —680	40J	10	✓	✓	✓	✓	22,000 —22K	40J	10	✓	✓	✓	✓
27 —27R	41J	1	✓	✓	✓	✓	750 —750	41J	1	✓	✓	✓	✓	25,000 —25K	41J	1	✓	✓	✓	✓
30 —30R	42J	2	✓	✓	✓	✓	800 —800	42J	2	✓	✓	✓	✓	30,000 —30K	42J	2	✓	✓	✓	✓
33 —33R	43J	3	✓	✓	✓	✓	820 —820	43J	3	✓	✓	✓	✓	33,000 —33K	43J	3	✓	✓	✓	✓
35 —35R	45J	5	✓	✓	✓	✓	900 —900	45J	5	✓	✓	✓	✓	35,000 —35K	45J	5	✓	✓	✓	✓
39 —39R	40J	10	✓	✓	✓	✓	1,000 —1K0	40J	10	✓	✓	✓	✓	40,000 —40K	40J	10	✓	✓	✓	✓
40 —40R	41J	1	✓	✓	✓	✓	1,100 —1K1	41J	1	✓	✓	✓	✓	50,000 —50K	41J	1	✓	✓	✓	✓
47 —47R	42J	2	✓	✓	✓	✓	1,200 —1K2	42J	2	✓	✓	✓	✓							
50 —50R	43J	3	✓	✓	✓	✓	1,500 —1K5	43J	3	✓	✓	✓	✓							
56 —56R	45J	5	✓	✓	✓	✓	1,800 —1K8	45J	5	✓	✓	✓	✓							
62 —62R	40J	10	✓	✓	✓	✓	2,000 —2K0	40J	10	✓	✓	✓	✓							

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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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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