

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

Wattage and Tolerance										
1% Tolerance						5% Tolerance				
Ohmic value	Part No. Prefix ▶ Suffix ▼	1	3	5	10	1	2	3	5	10
0.1	R10	✓	✓	✓	✓	✓	✓	✓	✓	✓
0.15	R15	✓	✓	✓	✓	✓	✓	✓	✓	✓
0.2	R20	✓	✓	✓	✓	✓	✓	✓	✓	✓
0.25	R25	✓	✓	✓	✓	✓	✓	✓	✓	✓
0.3	R30	✓	✓	✓	✓	✓	✓	✓	✓	✓
0.33	R33	✓	✓	✓	✓	✓	✓	✓	✓	✓
0.4	R40	✓	✓	✓	✓	✓	✓	✓	✓	✓
0.5	R50	✓	✓	✓	✓	✓	✓	✓	✓	✓
0.75	R75	✓	✓	✓	✓	✓	✓	✓	✓	✓
1	R10	✓	✓	✓	✓	✓	✓	✓	✓	✓
1.5	R15	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	R20	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.2	R22	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	R30	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	R40	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	R50	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.5	R75	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	R10	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	R12	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	R15	✓	✓	✓	✓	✓	✓	✓	✓	✓
18	R18	✓	✓	✓	✓	✓	✓	✓	✓	✓
20	R20	✓	✓	✓	✓	✓	✓	✓	✓	✓
22	R22	✓	✓	✓	✓	✓	✓	✓	✓	✓
25	R25	✓	✓	✓	✓	✓	✓	✓	✓	✓
27	R27	✓	✓	✓	✓	✓	✓	✓	✓	✓
30	R30	✓	✓	✓	✓	✓	✓	✓	✓	✓
33	R33	✓	✓	✓	✓	✓	✓	✓	✓	✓
35	R35	✓	✓	✓	✓	✓	✓	✓	✓	✓
39	R39	✓	✓	✓	✓	✓	✓	✓	✓	✓
40	R40	✓	✓	✓	✓	✓	✓	✓	✓	✓
47	R47	✓	✓	✓	✓	✓	✓	✓	✓	✓
50	R50	✓	✓	✓	✓	✓	✓	✓	✓	✓
56	R56	✓	✓	✓	✓	✓	✓	✓	✓	✓
62	R62	✓	✓	✓	✓	✓	✓	✓	✓	✓

Wattage and Tolerance										
1% Tolerance						5% Tolerance				
Ohmic value	Part No. Prefix ▶ Suffix ▼	1	3	5	10	1	2	3	5	10
68	68R	✓	✓	✓	✓	✓	✓	✓	✓	✓
75	75R	✓	✓	✓	✓	✓	✓	✓	✓	✓
82	82R	✓	✓	✓	✓	✓	✓	✓	✓	✓
100	100	✓	✓	✓	✓	✓	✓	✓	✓	✓
120	120	✓	✓	✓	✓	✓	✓	✓	✓	✓
125	125	✓	✓	✓	✓	✓	✓	✓	✓	✓
150	150	✓	✓	✓	✓	✓	✓	✓	✓	✓
180	180	✓	✓	✓	✓	✓	✓	✓	✓	✓
200	200	✓	✓	✓	✓	✓	✓	✓	✓	✓
220	220	✓	✓	✓	✓	✓	✓	✓	✓	✓
225	225	✓	✓	✓	✓	✓	✓	✓	✓	✓
250	250	✓	✓	✓	✓	✓	✓	✓	✓	✓
270	270	✓	✓	✓	✓	✓	✓	✓	✓	✓
300	300	✓	✓	✓	✓	✓	✓	✓	✓	✓
330	330	✓	✓	✓	✓	✓	✓	✓	✓	✓
350	350	✓	✓	✓	✓	✓	✓	✓	✓	✓
390	390	✓	✓	✓	✓	✓	✓	✓	✓	✓
400	400	✓	✓	✓	✓	✓	✓	✓	✓	✓
450	450	✓	✓	✓	✓	✓	✓	✓	✓	✓
470	470	✓	✓	✓	✓	✓	✓	✓	✓	✓
500	500	✓	✓	✓	✓	✓	✓	✓	✓	✓
560	560	✓	✓	✓	✓	✓	✓	✓	✓	✓
600	600	✓	✓	✓	✓	✓	✓	✓	✓	✓
680	680	✓	✓	✓	✓	✓	✓	✓	✓	✓
750	750	✓	✓	✓	✓	✓	✓	✓	✓	✓
800	800	✓	✓	✓	✓	✓	✓	✓	✓	✓
820	820	✓	✓	✓	✓	✓	✓	✓	✓	✓
900	900	✓	✓	✓	✓	✓	✓	✓	✓	✓
1,000	1K0	✓	✓	✓	✓	✓	✓	✓	✓	✓
1,100	1K1	✓	✓	✓	✓	✓	✓	✓	✓	✓
1,200	1K2	✓	✓	✓	✓	✓	✓	✓	✓	✓
1,500	1K5	✓	✓	✓	✓	✓	✓	✓	✓	✓
1,800	1K8	✓	✓	✓	✓	✓	✓	✓	✓	✓
2,000	2K0	✓	✓	✓	✓	✓	✓	✓	✓	✓

Wattage and Tolerance										
1% Tolerance						5% Tolerance				
Ohmic value	Part No. Prefix ▶ Suffix ▼	1	3	5	10	1	2	3	5	10
2,200	2K2	✓	✓	✓	✓	✓	✓	✓	✓	✓
2,500	2K5	✓	✓	✓	✓	✓	✓	✓	✓	✓
2,700	2K7	✓	✓	✓	✓	✓	✓	✓	✓	✓
3,000	3K0	✓	✓	✓	✓	✓	✓	✓	✓	✓
3,300	3K3	✓	✓	✓	✓	✓	✓	✓	✓	✓
3,500	3K5	✓	✓	✓	✓	✓	✓	✓	✓	✓
3,900	3K9	✓	✓	✓	✓	✓	✓	✓	✓	✓
4,000	4K0	✓	✓	✓	✓	✓	✓	✓	✓	✓
4,500	4K5	✓	✓	✓	✓	✓	✓	✓	✓	✓
4,700	4K7	✓	✓	✓	✓	✓	✓	✓	✓	✓
5,000	5K0	✓	✓	✓	✓	✓	✓	✓	✓	✓
6,000	6K0	✓	✓	✓	✓	✓	✓	✓	✓	✓
6,800	6K8	✓	✓	✓	✓	✓	✓	✓	✓	✓
7,000	7K0	✓	✓	✓	✓	✓	✓	✓	✓	✓
7,500	7K5	✓	✓	✓	✓	✓	✓	✓	✓	✓
8,000	8K0	✓	✓	✓	✓	✓	✓	✓	✓	✓
9,000	9K0	✓	✓	✓	✓	✓	✓	✓	✓	✓
10,000	10K	✓	✓	✓	✓	✓	✓	✓	✓	✓
12,000	12K	✓	✓	✓	✓	✓	✓	✓	✓	✓
13,000	13K	✓	✓	✓	✓	✓	✓	✓	✓	✓
15,000	15K	✓	✓	✓	✓	✓	✓	✓	✓	✓
17,000	17K	✓	✓	✓	✓	✓	✓	✓	✓	✓
20,000	20K	✓	✓	✓	✓	✓	✓	✓	✓	✓
22,000	22K	✓	✓	✓	✓	✓	✓	✓	✓	✓
25,000	25K	✓	✓	✓	✓	✓	✓	✓	✓	✓
30,000	30K	✓	✓	✓	✓	✓	✓	✓	✓	✓
33,000	33K	✓	✓	✓	✓	✓	✓	✓	✓	✓
35,000	35K	✓	✓	✓	✓	✓	✓	✓	✓	✓
40,000	40K	✓	✓	✓	✓	✓	✓	✓	✓	✓
50,000	50K	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ = Standard values
 ✦ = Non-standard values subject to minimum handling charge per item

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
 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

41: 5000
 42: 1250
 43: 1250
 45: 1000
 47: 500
 40: 500

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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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