

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						Wattage and Tolerance						Wattage and Tolerance																	
Ohmic value	Part No. Prefix ▶ Suffix ▼	1% Tolerance				5% Tolerance				Ohmic value	Part No. Prefix ▶ Suffix ▼	1% Tolerance				5% Tolerance				Ohmic value	Part No. Prefix ▶ Suffix ▼	1% Tolerance				5% Tolerance			
		41F	43F	45F	40F	41J	42J	43J	45J			40J	41F	43F	45F	40F	41J	42J	43J			45J	40J	41F	43F	45F	40F	41J	42J
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	
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	

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

Офис по работе с юридическими лицами:

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