

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											
1% Tolerance						5% Tolerance					1% Tolerance						5% Tolerance					1% Tolerance						5% Tolerance					
Ohmic value	Part No. Prefix ▶ Suffix ▼	1	3	5	10	1	2	3	5	10	Ohmic value	Part No. Prefix ▶ Suffix ▼	1	3	5	10	1	2	3	5	10	Ohmic value	Part No. Prefix ▶ Suffix ▼	1	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	—R10	✓								✓	220	—220	✓	✓		✱	✱			✓	✓	4,700	—4K7							✱		✱	
1.5	—R15	✓	✓	✓	✓	✓	✓	✓	✓	✓	225	—225	✱	✱		✓		✱		✓	✓	5,000	—5K0							✓	✓	✓	
2	—R20									✓	250	—250	✓	✓		✓		✓		✓	✓	6,000	—6K0							✓		✓	
2.2	—R22	✓	✓	✓	✓	✓	✓	✓	✓	✓	270	—270	✓			✱		✓	✱		✓	6,800	—6K8							✓	✓	✱	
3	—R30	✓			✱					✓	300	—300	✓	✱		✓		✓	✓	✓	✓	7,000	—7K0							✓	✱	✱	
4	—R40	✓	✓	✓	✓	✓	✓	✓	✓	✓	330	—330			✱	✱			✓	✓	✓	7,500	—7K5							✓	✓	✓	
5	—R50	✓	✓	✓	✓					✓	350	—350	✱			✓		✱		✓	✓	8,000	—8K0							✓		✱	
7.5	—R75			✓	✓					✱	390	—390	✱			✓		✓		✓	✓	9,000	—9K0			✓				✱	✱	✱	
10	—R10	✓								✓	400	—400	✓			✓		✓		✓	✓	10,000	—10K							✓	✓	✓	
12	—R12	✱	✓	✱		✓	✓	✓	✓	✓	450	—450				✓		✱	✱	✱	✓	12,000	—12K										
15	—R15	✓	✓	✓	✱	✓	✱			✓	470	—470	✓	✓	✓	✓	✱			✓	✓	13,000	—13K				✓						
18	—R18	✱		✱	✱	✱	✱	✓	✓	✓	500	—500	✓	✓	✓	✓	✓		✱	✓	✓	15,000	—15K				✓	✓					
20	—R20	✓	✓	✓	✓					✓	560	—560	✓	✓	✓	✓	✓	✓	✓	✓	✓	17,000	—17K										
22	—R22	✓	✓	✓	✓	✱				✓	600	—600	✓			✓		✱		✓	✓	20,000	—20K										
25	—R25	✓	✓	✓	✱					✱	680	—680	✓			✓		✓		✓	✓	22,000	—22K					✓					
27	—R27	✱	✓	✓	✓					✱	750	—750	✓	✓	✓	✓	✓	✓		✓	✓	25,000	—25K				✓						
30	—R30	✓	✓	✓	✓	✱	✓	✱		✓	800	—800	✓	✓	✓	✓	✓	✱	✱	✓	✱	30,000	—30K										
33	—R33	✓			✱					✓	820	—820				✓		✱		✓	✓	33,000	—33K										
35	—R35	✓	✱	✓	✓	✓				✓	900	—900	✓			✓	✱		✓	✓	✓	35,000	—35K										
39	—R39	✓	✓	✱	✱					✓	1,000	—1K0	✓	✓	✓	✓	✓	✓		✓	✓	40,000	—40K										
40	—R40	✓				✱	✱	✱		✓	1,100	—1K1	✱	✱		✓		✱	✱	✓	✓	50,000	—50K										
47	—R47	✓	✓	✓	✱	✓	✓	✓	✓	✓	1,200	—1K2	✓	✱		✓		✱	✱	✓	✓	✓ = Standard values ✱ = Non-standard values subject to minimum handling charge per item											
50	—R50	✓	✓	✓		✓	✓	✓	✓	✓	1,500	—1K5	✓			✓		✓	✓	✓													
56	—R56	✓	✓	✓	✱	✓	✓	✓	✓	✓	1,800	—1K8	✓	✱		✓		✓	✓	✓													
62	—R62	✓	✓	✓	✓	✱		✱		✓	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

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

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:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9