

# 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

<b>Coating</b>	Conformal silicone-ceramic.
<b>Core</b>	Ceramic.
<b>Terminals</b>	Solder-coated copper clad axial. RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu
<b>Derating</b>	Linearly from 100% @ +25°C to 0% @ +275°C.
<b>Tolerance</b>	±5% (J type), ±1% (F type) (other tolerances available).
<b>Power rating</b>	Based on 25°C free air rating
<b>Overload</b>	Under 5 watts: 5 times rated wattage for 5 seconds. 5 watts and over: 10 times rated wattage for 5 seconds.
<b>Temperature coefficient</b>	Under 1Ω: ±90 ppm/°C; 1Ω to 9.99Ω: ±50 ppm/°C; 10Ω and over: ±20 ppm/°C
<b>Operating temp. range</b>	-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	Part No. Suffix	1	3	5	10	1	2	3	5	10	Ohmic value	Part No. Prefix	Part No. Suffix	1	3	5	10	1	2	3	5	10	Ohmic value	Part No. Prefix	Part No. 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	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		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.									
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		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																							

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



## 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](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9