

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.

SPECIFICATIONS

MATERIAL

Coating: Conformal silicone-ceramic.

Core: Ceramic.

Terminals: Solder-coated copper clad axial lead.

DERATING

Linearly from
100% @ +25°C to
0% @ +275°C.

ELECTRICAL

Tolerance: ±5% (J type), ±1% (F type) (other tolerances available).

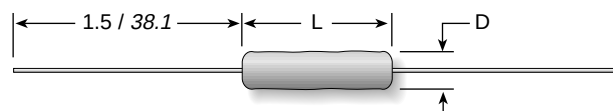
Power rating: Based on 25°C free air rating (other wattages available).

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 1 ohm: ±90 ppm/°C
1W to 9.99 ohms: ±50 ppm/°C
10 ohms and over: ±20 ppm/°C

40 Series

Ohmicone® Silicone-Ceramic Conformal Axial Lead Wirewound Resistors 1% and 5% Tolerances Standard



FEATURES

- Economical
- Applications include commercial, industrial and communications equipment
- Stability under high temperature conditions
- All-welded construction
- CECC sizes available

Series	Wattage	Ohms	Dimensions (in. / mm)		Voltage	Lead ga.
			Length	Diam.		
41	1.0	0.10-6.7K	0.437 / 11.1	0.125 / 3.2	150	24
42	2.0	0.10-8.7K	0.406 / 10.3	0.219 / 5.6	100	20
43	3.0	0.10-22K	0.593 / 15.1	0.218 / 5.5	200	20
45	5.0	0.10-81K	0.937 / 23.8	0.343 / 8.7	460	18
47	7.0	0.10-119K	1.280 / 32.5	0.343 / 8.7	670	18
40	10.0	0.10-223K	1.642 / 41.7	0.406 / 10.3	1000	18

Non-Inductive versions available. Insert "N" before tolerance code. Example - 42NJ27R

STOCK PART NUMBERS FOR STANDARD RESISTANCE VALUES

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

✚ = Most popular stock values

✓ = Stock values

✚ = Non-stock values subject to minimum handling charge per item