

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.

SPECIFICATIONS

Material

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.

Electrical

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

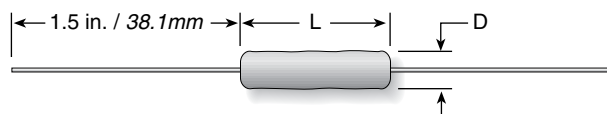
Power rating: Based on 25°C free air rating (other wattages available).

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 1Ω: ±90 ppm/°C
1Ω to 9.99Ω: ±50 ppm/°C
10Ω and over: ±20 ppm/°C



Ohmicone® Silicone-Ceramic Conformal Axial Term. Wirewound, 1% and 5% Tol. Std.



Series	Wattage	Ohms	Dimensions (in. / mm)		Voltage	Lead ga.
			Length	Diam.		
41	1.0	0.10-6K	0.437 / 11.1	0.125 / 3.2	150	24
42	2.0	0.10-8K	0.406 / 10.3	0.219 / 5.6	100	20
43	3.0	0.10-20K	0.593 / 15.1	0.218 / 5.5	200	20
45	5.0	0.10-70K	0.937 / 23.8	0.343 / 8.7	460	18
47	7.0	0.10-80K	1.280 / 32.5	0.343 / 8.7	670	18
40	10.0	0.10-150K	1.642 / 41.7	0.406 / 10.3	1000	18

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

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.

ORDERING INFO

40 Series
Ohmicone®
Silicone Ceramic
Conformal Axial
Term. Wirewound

Non-Inductive
Winding
Optional (blank
= std. winding)

RoHS
Compliant

41NJR10E

Wattage	Tolerance	Resistance Value
1 = 1W	F = 1%	R10 = 0.10Ω
2	J = 5%	1R0 = 1.0Ω
3		10R = 10.0Ω
5		250 = 250Ω
7		1K0 = 1,000Ω
0 = 10W		4K5 = 4,500Ω
		50K = 50,000Ω

STANDARD PART NUMBERS FOR 40 SERIES

Wattage and Tolerance									
1% Tolerance									
Ohmic value	Part No. Prefix Suffix	1	3	5	10	1	2	3	5
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									
Ohmic value	Part No. Prefix Suffix	1	3	5	10	1	2	3	5
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									
Ohmic value	Part No. Prefix Suffix	1	3	5	10	1	2	3	5
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

Check product availability at www.ohmite.com