

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).

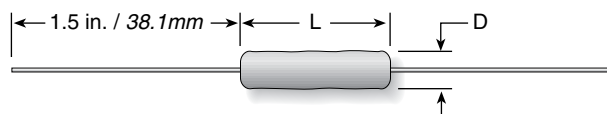
Power rating: Based on 25°C free air rating (other wattages available).

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



Ohmicon® 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											Wattage and Tolerance											Wattage and Tolerance													
Ohmic value		1% Tolerance					5% Tolerance					Ohmic value		1% Tolerance					5% Tolerance					Ohmic value		1% Tolerance					5% Tolerance				
		Part No. Prefix Suffix	1	3	5	10	1	2	3	5	10			Part No. Prefix Suffix	1	3	5	10	1	2	3	5	10			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	—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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ = Standard values													
50	—50R	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,500	—1K5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✱ = Non-standard values subject to mini- handling charge per item													
56	—56R	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,800	—1K8	✓	✓	✓	✓	✓	✓	✓	✓	✓	Check product availability at www.ohmite.com													
62	—62R	✓	✓	✓	✓	✓	✓	✓	✓	✓	2,000	—2K0	✓	✓	✓	✓	✓	✓	✓	✓	✓														

✓ = Standard values

✦ = Non-standard values subject to minimum handling charge per item

Check product availability at www.ohmite.com