

FEATURES

- Economical
- Applications include commercial, industrial and communications equipment
- Stability under high temperature conditions
- All-welded construction
- CECC sizes available
- RoHS compliant; add "E" suffix to part number to specify.

SPECIFICATIONS

Material
Coating: Conformal silicone-ceramic.
Core: Ceramic.
Terminals: Solder-coated copper clad axial.
Derating
 Linearly from
 100% @ +25°C to
 0% @ +275°C.

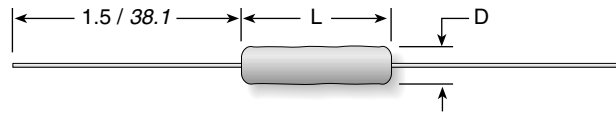
Electrical
Tolerance: ±5% (J type), ±1% (F type) (other tolerances available).
Power rating: Based on 25°C free air rating (other wattages available).

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

40 Series

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: 42N2J7R

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

Ohmic value		Wattage and Tolerance					Ohmic value		Wattage and Tolerance					Ohmic value		Wattage and Tolerance											
		1% Tolerance		5% Tolerance					1% Tolerance		5% Tolerance					1% Tolerance		5% Tolerance									
Part No. Prefix	Suffix	1	3	5	10	1	2	3	5	10	1	2	3	5	10	1	2	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	✓	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗
50	R50	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,500	1K5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗
56	R56	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,800	1K8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
62	R62	✓	✓	✓	✓	✓	✓	✓	✓	✓	2,000	2K0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ = Standard values

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

Check product availability at www.ohmite.com