

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).

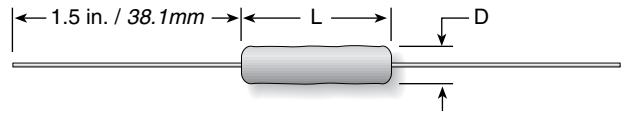
Overload: Under 5 watts: 5 times rated wattage for 5 seconds. 5 watts and over: 10 times rated wattage for 5 seconds.

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



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	0.219 / 5.6	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	1.900 / 48.3	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
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41 N J R 10 E

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			
	Part No. Prefix Suffix	1	3	5	10	Part No. Prefix Suffix		1	2	3	5	10		
0.1	R10	✓	✓	✓	✓	✓	68	68R	✓	✓	✓	✓	✓	✓
0.15	R15	✓	✓	✓	✓	✓	75	75R	✓	✓	✖	✓	✓	✓
0.2	R20	✓	✓	✓	✓	✓	82	82R	✖	✓	✓	✓	✓	✓
0.25	R25	✓	✓	✓	✓	✓	100	100	✓	✓	✓	✓	✓	✓
0.3	R30	✓	✓	✓	✓	✓	120	120	✖	✓	✓	✓	✓	✓
0.33	R33	✓	✓	✓	✓	✓	125	125	✓	✖	✖	✓	✓	✓
0.4	R40	✓	✓	✓	✓	✓	150	150	✓	✓	✖	✓	✓	✓
0.5	R50	✓	✓	✓	✓	✓	180	180	✓	✓	✖	✓	✓	✓
0.75	R75	✓	✖	✓	✓	✓	200	200	✓	✓	✓	✓	✓	✓
1	1R0	✓	✓	✓	✓	✓	220	220	✓	✓	✖	✓	✓	✓
1.5	1R5	✓	✓	✓	✓	✓	225	225	✖	✖	✖	✓	✓	✓
2	2R0	✓	✓	✓	✓	✓	250	250	✓	✓	✓	✓	✓	✓
2.2	2R2	✓	✓	✓	✓	✓	270	270	✓	✓	✖	✓	✓	✓
3	3R0	✓	✓	✓	✓	✓	300	300	✓	✓	✖	✓	✓	✓
4	4R0	✓	✓	✓	✓	✓	330	330	✓	✓	✖	✓	✓	✓
5	5R0	✓	✓	✓	✓	✓	350	350	✖	✖	✖	✓	✓	✓
7.5	7R5	✓	✓	✓	✓	✓	390	390	✖	✓	✖	✓	✓	✓
10	10R	✓	✓	✓	✓	✓	400	400	✓	✓	✓	✓	✓	✓
12	12R	✖	✓	✓	✓	✓	450	450	✖	✓	✖	✓	✓	✓
15	15R	✓	✓	✓	✓	✓	470	470	✓	✓	✓	✓	✓	✓
18	18R	✖	✓	✓	✓	✓	500	500	✓	✓	✓	✓	✓	✓
20	20R	✓	✓	✓	✓	✓	560	560	✓	✓	✖	✓	✓	✓
22	22R	✓	✓	✓	✓	✓	600	600	✓	✓	✓	✓	✓	✓
25	25R	✓	✓	✓	✓	✓	680	680	✓	✓	✖	✓	✓	✓
27	27R	✖	✓	✓	✓	✓	750	750	✓	✓	✓	✓	✓	✓
30	30R	✓	✓	✓	✓	✓	800	800	✓	✓	✓	✓	✓	✓
33	33R	✓	✓	✓	✓	✓	820	820	✓	✓	✓	✓	✓	✓
35	35R	✓	✓	✓	✓	✓	900	900	✓	✓	✖	✓	✓	✓
39	39R	✓	✓	✓	✓	✓	1,000	1K0	✓	✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓	✓

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

Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.

Check product availability at www.ohmite.com