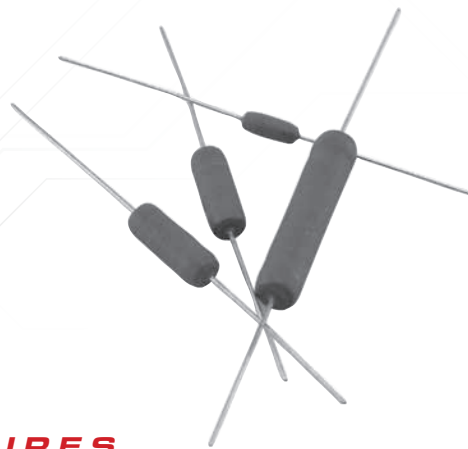


# 40 Series

Ohmicone® Silicone-Ceramic Conformal  
Axial Terminal Wirewound  
1% and 5% Tolerance Standard



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 resistances 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.

## 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.

## SERIES SPECIFICATIONS

Series	Wattage	Ohms	Voltage
41	1.0	0.10-6K	150
42	2.0	0.10-8K	100
43	3.0	0.10-20K	200
45	5.0	0.10-70K	460
47	7.0	0.10-80K	670
40	10.0	0.10-150K	1000

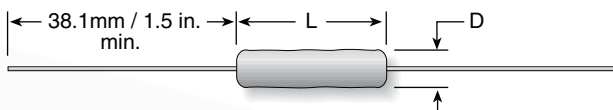
Non-Inductive versions available. Insert "N" before tolerance code.  
Example: 42NJ27R

## CHARACTERISTICS

<b>Coating</b>	Conformal silicone-ceramic.
<b>Core</b>	Ceramic.
<b>Terminals</b>	Solder-coated copper clad axial. RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu
<b>Derating</b>	Linearly from 100% @ +25°C to 0% @ +275°C.
<b>Tolerance</b>	±5% (J type), ±1% (F type) (other tolerances available).
<b>Power rating</b>	Based on 25°C free air rating
<b>Overload</b>	Under 5 watts: 5 times rated wattage for 5 seconds. 5 watts and over: 10 times rated wattage for 5 seconds.
<b>Temperature coefficient</b>	Under 1Ω : ±90 ppm/°C; 1Ω to 9.99Ω : ±50 ppm/°C; 10Ω and over: ±20 ppm/°C
<b>Operating temp. range</b>	-55°C to 275°C

## DIMENSION

(mm/in. max.)



Series	Wattage	Length	Diam.*	Lead ga.
41	1.0	11.1 / 0.437	3.2 / 0.125	24
42	2.0	10.3 / 0.406	5.6 / 0.219	20
43	3.0	15.1 / 0.593	5.6 / 0.219	20
45	5.0	23.8 / 0.937	8.7 / 0.343	18
47	7.0	32.5 / 1.280	8.7 / 0.343	18
40	10.0	48.3 / 1.900	10.3 / 0.406	18

\*For Non-inductive versions, the diameter shown in the table may be different.

# 40 Series

Ohmicone® Silicone-Ceramic Conformal  
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1% and 5% Tolerance Standard

## ORDERING INFORMATION

### Standard part numbers

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		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
0.10	R10	✓	✓	✓	✓	✓	✓	✓	✓	✓	68	68R	✓	✓	✓	✓	✓	✓	✓	✓	2,200	2K2	✓	✓	✓	✓	◆	◆	✓	✓	✓	
0.15	R15	✓	✓	✓	✓	✓	✓	✓	✓	✓	75	75R	✓	✓	◆	✓	✓	✓	✓	✓	2,500	2K5	✓	✓	✓	✓	◆	◆	✓	✓	✓	
0.20	R20	✓	✓	✓	✓	✓	✓	✓	✓	✓	82	82R	◆	✓	✓	✓	✓	✓	✓	✓	2,700	2K7	◆	◆	✓	✓	◆	◆	✓	✓	✓	
0.25	R25	✓	✓	✓	✓	✓	✓	✓	✓	✓	100	100	✓	✓	✓	✓	✓	✓	✓	✓	3,000	3K0	✓	✓	✓	✓	◆	◆	✓	✓	✓	
0.30	R30	✓	✓	✓	✓	✓	✓	✓	✓	✓	120	120	◆	✓	✓	✓	✓	✓	✓	✓	3,300	3K3	◆	◆	✓	✓	◆	◆	✓	✓	✓	
0.33	R33	✓	✓	✓	✓	✓	✓	✓	✓	✓	125	125	✓	◆	◆	✓	✓	◆	✓	✓	3,500	3K5	✓	✓	✓	◆	◆	◆	◆	◆	◆	
0.40	R40	✓	✓	✓	✓	✓	✓	✓	✓	✓	150	150	✓	✓	✓	◆	✓	✓	✓	✓	3,900	3K9	✓	✓	✓	✓	✓	✓	✓	✓	✓	
0.50	R50	✓	✓	✓	✓	✓	✓	✓	✓	✓	180	180	✓	✓	✓	✓	◆	✓	✓	✓	4,000	4K0	✓	✓	◆	◆	✓	✓	✓	✓	✓	
0.75	R75	✓	✓	✓	✓	✓	✓	✓	✓	✓	200	200	✓	✓	✓	✓	✓	✓	✓	✓	4,500	4K5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1.0	1R0	✓	✓	✓	✓	✓	✓	✓	✓	✓	220	220	✓	✓	◆	◆	✓	✓	✓	✓	4,700	4K7	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1.5	1R5	✓	✓	✓	✓	✓	✓	✓	✓	✓	225	225	◆	◆	◆	✓	◆	◆	◆	◆	5,000	5K0	✓	✓	✓	✓	◆	◆	✓	✓	✓	
2.0	2R0	✓	✓	✓	✓	✓	✓	✓	✓	✓	250	250	✓	✓	✓	✓	✓	✓	✓	✓	6,000	6K0	✓	✓	◆	◆	✓	✓	✓	✓	✓	
2.2	2R2	✓	✓	✓	✓	✓	✓	✓	✓	✓	270	270	✓	✓	◆	◆	✓	◆	✓	✓	6,800	6K8	✓	✓	✓	◆	✓	✓	✓	✓	✓	
3.0	3R0	✓	✓	✓	✓	✓	✓	✓	✓	✓	300	300	✓	✓	✓	✓	✓	✓	✓	✓	7,000	7K0	✓	✓	✓	✓	◆	◆	✓	✓	✓	
4.0	4R0	✓	✓	✓	✓	✓	✓	✓	✓	✓	330	330	✓	◆	◆	◆	◆	✓	✓	✓	7,500	7K5	✓	✓	✓	✓	◆	◆	✓	✓	✓	
5.0	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 minimum handling charge per item	✓	✓	✓	✓	✓	✓	✓	✓	✓	
56	56R	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,800	1K8	✓	✓	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
62	62R	✓	✓	✓	✓	✓	✓	✓	✓	✓	2,000	2K0	✓	✓	✓	✓	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	

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

40 Series Ohmicone® Silicone Ceramic Conformal Axial Term. Wirewound Non-Inductive Winding optional (blank= std. winding) RoHS Compliant

**41NJR10E-T** — Tape & reel optional pc/reel:

<b>Wattage</b>	<b>Tolerance</b>	<b>Resistance</b>	
1 = 1W	F = 1%	R10 = 0.10Ω	41: 5000
2	J = 5%	1R0 = 1.0Ω	42: 1250
3		10R = 10.0Ω	43: 1250
5		250 = 250Ω	45: 1000
7		1K0 = 1,000Ω	47: 500
0 = 10W		4K5 = 4,500Ω	40: 500
		50K = 50,000Ω	