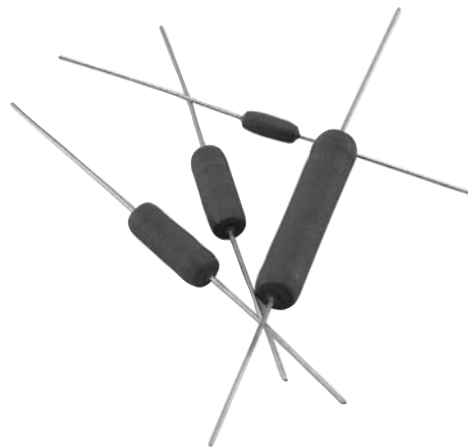


# 40 Series

## 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 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.

### 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

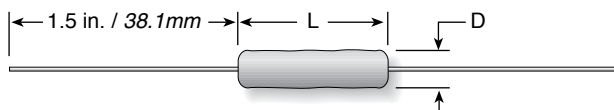
Non-Inductive versions available. Insert "N" before tolerance code.  
Example: 42NJ27R

### 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

### DIMENSIONS

(in./mm max.)



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

(continued)

# 40 Series

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

### ORDERING INFORMATION

#### Standard part numbers

Wattage and Tolerance											Wattage and Tolerance											Wattage and Tolerance										
1% Tolerance						5% Tolerance					1% Tolerance						5% Tolerance					1% Tolerance						5% Tolerance				
Ohmic value	Part No. Prefix ▶ Suffix ▼	1	3	5	10	1	2	3	5	10	Ohmic value	Part No. Prefix ▶ Suffix ▼	1	3	5	10	1	2	3	5	10	Ohmic value	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						Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.				
50	—50R	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,500	—1K5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✱ = Non-standard values subject to mini- 										

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:

Wattage  
1 = 1W  
2  
3  
5  
7  
0 = 10W

Tolerance  
F = 1%  
J = 5%

Resistance  
R10 = 0.10Ω  
1R0 = 1.0Ω  
10R = 10.0Ω  
250 = 250Ω  
1K0 = 1,000Ω  
4K5 = 4,500Ω  
50K = 50,000Ω

41: 5000  
42: 1250  
43: 1250  
45: 1000  
47: 500  
40: 500