

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

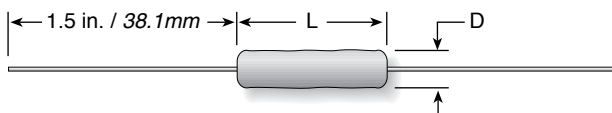
Non-Inductive versions available. Insert "N" before tolerance code.
Example: 42NJ27R

CHARACTERISTICS

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

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)

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ORDERING INFORMATION

Standard part numbers

Ohmic value	Wattage and Tolerance					Ohmic value	Wattage and Tolerance					Ohmic value	Wattage and Tolerance											
	Part No. Prefix > Suffix >	1% Tolerance		5% Tolerance			Part No. Prefix > Suffix >	1% Tolerance		5% Tolerance			Part No. Prefix > Suffix >	1% Tolerance		5% Tolerance								
0.1 — R10	41F	1	3	5	10	68 — 68R	41F	1	3	5	10	2,200 — 2K2	41F	1	3	5	10	41J	1	2	3	5	10	
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																		
50 — 50R						1,500 — 1K5																		
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.

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

