

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).

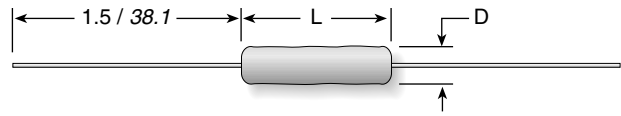
Overload: Under 5 watts: 5 times rated wattage for 5 seconds. 5 watts and over: 10 times rated wattage for 5 seconds.

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

		Wattage and Tolerance												Wattage and Tolerance												Wattage and Tolerance																																																																																																																																																																																																																																																																																																																																					
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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

Check product availability at www.ohmite.com