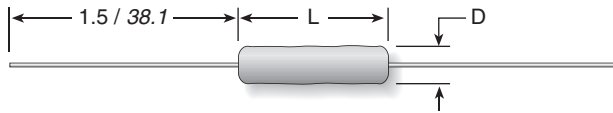


40 Series

Ohmicone®, Silicone-Ceramic Conformal Axial Lead Wirewound Resistors 1% and 5% Tolerances Standard



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: 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.

FEATURES

- Economical
- Applications include commercial, industrial and communications equipment
- Stability under high temperature conditions
- All-welded construction
- CECC sizes available
- RoHS compliant product available Jan. 2006 Add "E" suffix to part number to specify.

SPECIFICATIONS

Material

Coating: Conformal silicone-ceramic.

Core: Ceramic.

Terminals: Solder-coated copper clad axial lead.

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

STOCK PART NUMBERS FOR STANDARD RESISTANCE VALUES

Wattage and 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		
		41F	43F	45F	40F	41J	42J	43J	45J	40J				
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	✓	✚

✚ = Most popular stock values

✓ = Stock values

✚ = Non-stock 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.