

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.

SPECIFICATIONS

Material

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.

Electrical

Tolerance: ±5% (J type), ±1% (F type) (other tolerances available).

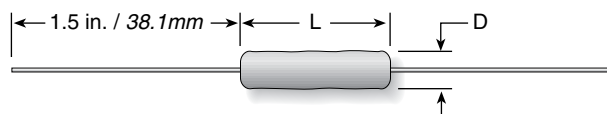
Power rating: Based on 25°C free air rating (other wattages available).

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



Ohmicon® 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: 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.

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												
		1% Tolerance					5% Tolerance					
Ohmic value	Part No. Prefix Suffix	1	3	5	10	1	2	3	5	10		
		41F	43F	45F	40F	41J	42J	43J	45J	40J		
0.1	R10	✓	✓	✓	✓	✓	✓	✓	✓	✓		
0.15	R15	✓	✓	✓	✓	✓	✓	✓	✓	✓		
0.2	R20	✓	✓	✓	✓	✓	✓	✓	✓	✓		
0.25	R25	✓	✓	✓	✓	✓	✓	✓	✓	✓		
0.3	R30	✓	✓	✓	✓	✓	✓	✓	✓	✓		
0.33	R33	✓	✓	✓	✓	✓	✓	✓	✓	✓		
0.4	R40	✓	✓	✓	✓	✓	✓	✓	✓	✓		
0.5	R50	✓	✓	✓	✓	✓	✓	✓	✓	✓		
0.75	R75	✓	✓	✓	✓	✓	✓	✓	✓	✓		
1	R10	✓	✓	✓	✓	✓	✓	✓	✓	✓		
1.5	R15	✓	✓	✓	✓	✓	✓	✓	✓	✓		
2	R20	✓	✓	✓	✓	✓	✓	✓	✓	✓		
2.2	R22	✓	✓	✓	✓	✓	✓	✓	✓	✓		
3	R30	✓	✓	✓	✓	✓	✓	✓	✓	✓		
4	R40	✓	✓	✓	✓	✓	✓	✓	✓	✓		
5	R50	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7.5	R75	✓	✓	✓	✓	✓	✓	✓	✓	✓		
10	R10	✓	✓	✓	✓	✓	✓	✓	✓	✓		
12	R12	✱	✓	✱	✓	✓	✓	✓	✓	✓		
15	R15	✓	✓	✓	✱	✓	✱	✓	✓	✓		
18	R18	✱	✓	✱	✱	✓	✱	✓	✓	✓		
20	R20	✓	✓	✓	✓	✓	✓	✓	✓	✓		
22	R22	✓	✓	✓	✓	✓	✓	✓	✓	✓		
25	R25	✓	✓	✓	✱	✓	✓	✓	✓	✓		
27	R27	✱	✓	✓	✓	✓	✓	✓	✓	✓		
30	R30	✓	✓	✓	✓	✓	✓	✓	✓	✓		
33	R33	✓	✓	✱	✓	✓	✓	✓	✓	✓		
35	R35	✓	✱	✓	✓	✓	✓	✓	✓	✓		
39	R39	✓	✓	✱	✱	✓	✓	✓	✓	✓		
40	R40	✓	✓	✓	✓	✓	✓	✓	✓	✓		
47	R47	✓	✓	✱	✱	✓	✓	✓	✓	✓		
50	R50	✓	✓	✓	✓	✓	✓	✓	✓	✓		
56	R56	✓	✓	✱	✓	✓	✓	✓	✓	✓		
62	R62	✓	✓	✓	✓	✓	✓	✓	✓	✓		

Wattage and Tolerance												
		1% Tolerance					5% Tolerance					
Ohmic value	Part No. Prefix Suffix	1	3	5	10	1	2	3	5	10		
		41F	43F	45F	40F	41J	42J	43J	45J	40J		
68	68R	✓	✓	✓	✓	✓	✓	✓	✓	✱		
75	75R	✓	✓	✱	✓	✓	✓	✓	✓	✓		
82	82R	✱	✓	✓	✓	✓	✓	✓	✓	✱		
100	100	✓	✓	✓	✓	✓	✓	✓	✓	✓		
120	120	✱	✓	✓	✓	✓	✓	✓	✓	✱		
125	125	✓	✱	✱	✓	✓	✱	✓	✓	✓		
150	150	✓	✓	✓	✱	✓	✓	✓	✓	✓		
180	180	✓	✓	✱	✓	✓	✓	✓	✓	✱		
200	200	✓	✓	✓	✓	✓	✓	✓	✓	✓		
220	220	✓	✓	✱	✱	✓	✱	✓	✓	✓		
225	225	✱	✱	✱	✓	✓	✱	✓	✓	✱		
250	250	✓	✓	✓	✓	✓	✓	✓	✓	✓		
270	270	✓	✓	✱	✓	✓	✓	✓	✓	✓		
300	300	✓	✱	✓	✓	✓	✓	✓	✓	✓		
330	330	✓	✱	✱	✱	✓	✓	✓	✓	✓		
350	350	✓	✓	✓	✓	✓	✱	✓	✓	✱		
390	390	✱	✓	✱	✱	✓	✓	✓	✓	✓		
400	400	✓	✓	✓	✱	✓	✓	✓	✓	✓		
450	450	✱	✓	✓	✓	✓	✱	✱	✱	✓		
470	470	✓	✓	✓	✱	✓	✓	✓	✓	✱		
500	500	✓	✓	✓	✓	✓	✓	✓	✓	✱		
560	560	✓	✓	✓	✓	✓	✓	✓	✓	✓		
600	600	✓	✓	✓	✓	✓	✱	✓	✓	✓		
680	680	✓	✓	✱	✓	✓	✓	✓	✓	✓		
750	750	✓	✓	✓	✱	✓	✱	✓	✓	✱		
800	800	✓	✓	✓	✓	✓	✱	✱	✱	✱		
820	820	✓	✓	✓	✓	✓	✓	✓	✓	✓		
900	900	✓	✓	✱	✱	✓	✓	✓	✓	✱		
1,000	1K0	✓	✓	✓	✓	✓	✓	✓	✓	✓		
1,100	1K1	✱	✱	✓	✓	✓	✓	✱	✓	✓		
1,200	1K2	✓	✱	✓	✓	✓	✓	✓	✓	✓		
1,500	1K5	✓	✓	✓	✓	✓	✓	✓	✓	✓		
1,800	1K8	✓	✱	✓	✓	✓	✓	✓	✓	✓		
2,000	2K0	✓	✓	✓	✓	✓	✓	✓	✓	✓		

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✓ = Standard values

✖ = Non-standard values subject to minimum handling charge per item

Check product availability at www.ohmite.com