

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

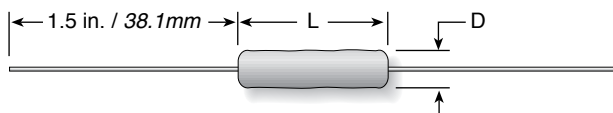
Non-Inductive versions available. Insert "N" before tolerance code.
Example: 42NJ27R

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																
	1% Tolerance					5% Tolerance						1% Tolerance					5% Tolerance						1% Tolerance					5% Tolerance											
Part No. Prefix > Suffix >	1	3	5	10	1	2	3	5	10	Part No. Prefix > Suffix >	1	3	5	10	1	2	3	5	10	Part No. Prefix > Suffix >	1	3	5	10	1	2	3	5	10	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	✓	✓	✓	✓	✓	✓	✓	✓	✓																			
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

