

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

Wattage and Tolerance											Wattage and Tolerance											Wattage and Tolerance										
1% Tolerance						5% Tolerance					1% Tolerance						5% 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 ▼	1	3	5	10	1	2	3	5	10	Ohmic value	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		✓	✓	✓			Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.		
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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ = Standard values										
50	—50R	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,500	—1K5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✦ = Non-standard values subject to minimum handling charge per item										
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.



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