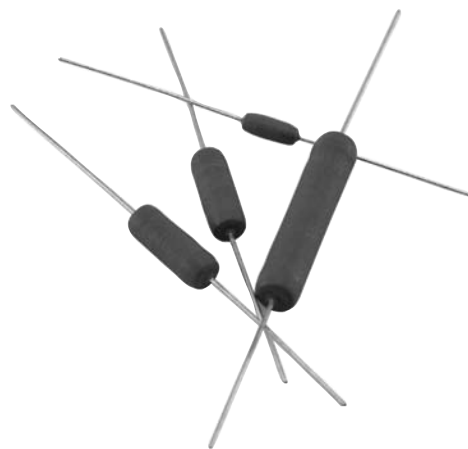


40 Series

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
Operating temp. range	-55°C to 275°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	—R10	✓									220	—220	✓	✓		✱	✱					4,700	—4K7				✱			✱			
1.5	—R15	✓		✓	✓	✓	✓	✓	✓	✓	225	—225	✱	✱				✱	✱	✱	✱	5,000	—5K0			✓	✓	✓					
2	—R20										250	—250	✓	✓								6,000	—6K0			✓	✓	✓					
2.2	—R22	✓	✓	✓	✓	✓	✓	✓	✓	✓	270	—270	✓					✓	✓	✱		6,800	—6K8			✓				✓		✱	
3	—R30	✓									300	—300	✓	✱								7,000	—7K0			✓	✓			✱			
4	—R40	✓		✓	✓	✓	✓	✓	✓	✓	330	—330	✓		✱	✱						7,500	—7K5			✓	✓	✓			✓		
5	—R50	✓		✓	✓	✓	✓	✓	✓		350	—350	✱					✱	✱		✱	8,000	—8K0				✱						
7.5	—R75										390	—390	✱					✓	✓		✓	9,000	—9K0		✓			✱					
10	—R10	✓									400	—400	✓					✓	✱			10,000	—10K				✓			✓		✓	
12	—R12	✱		✓	✱						450	—450	✓					✱	✱	✱	✱	12,000	—12K					✓					
15	—R15	✓	✓	✓	✱						470	—470	✓	✓	✓	✓	✱					13,000	—13K				✓	✓					
18	—R18	✱			✱						500	—500	✓	✓	✓	✓		✱			✱	15,000	—15K			✓	✓						
20	—R20	✓	✓	✓	✓						560	—560	✓	✓	✓	✓		✱	✱			17,000	—17K				✓	✓					
22	—R22	✓	✓	✓	✓	✱					600	—600	✓					✱	✱			20,000	—20K			✓	✓	✓					
25	—R25	✓	✓	✓	✱						680	—680	✓			✱						22,000	—22K				✓						
27	—R27	✱		✓	✓						750	—750		✓	✓	✓	✓		✓	✱		25,000	—25K				✓	✓					
30	—R30	✓	✓	✓	✓		✱	✓	✱	✓	800	—800		✓		✓		✱	✱		✱	30,000	—30K					✱					
33	—R33	✓			✱						820	—820						✓	✱		✱	33,000	—33K										
35	—R35	✓	✱		✓					✱	900	—900	✓			✱			✱		✓	35,000	—35K										
39	—R39	✓	✓	✱	✱					✱	1,000	—1K0	✓	✓	✓	✓					✓	40,000	—40K										
40	—R40	✓					✱	✱	✱	✓	1,100	—1K1	✱	✱				✱	✱		✱	50,000	—50K										
47	—R47	✓	✓	✓	✱	✱					1,200	—1K2		✓	✱	✓	✓		✓		✓	✓ = Standard values											
50	—R50	✓	✓	✓							1,500	—1K5			✱	✓	✓		✓		✓	✱ = Non-standard values subject to minimum handling charge per item											
56	—R56	✓	✓	✓	✱						1,800	—1K8				✱	✱		✓		✓												
62	—R62	✓	✓	✓	✓		✱		✱	✓	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

40 Series
Ohmicone®
Silicone Ceramic
Conformal Axial
Term. Wirewound

Non-Inductive
Winding
optional
(blank= std.
winding)

RoHS
Compliant

41NJR10E-T

Wattage
1 = 1W
2
3
5
7
0 = 10W

Tolerance
F = 1%
J = 5%

Resistance
R10 = 0.10Ω
1R0 = 1.0Ω
10R = 10.0Ω
250 = 250Ω
1K0 = 1,000Ω
4K5 = 4,500Ω
50K = 50,000Ω

Tape & reel
optional
pc/reel:
41: 5000
42: 1250
43: 1250
45: 1000
47: 500
40: 500