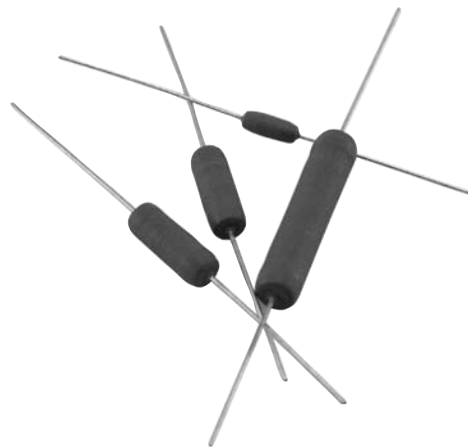


40 Series

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

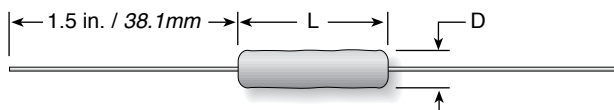
Non-Inductive versions available. Insert "N" before tolerance code.
Example: 42NJ27R

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)

40 Series

Ohmicone® Silicone-Ceramic Conformal Axial Terminal Wirewound 1% and 5% Tolerance Standard

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			✓	✓	✓	✓	✓	✓	✓
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 mini-										
56	—56R	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,800	—1K8	✓	✓	✓	✓	✓	✓	✓	✓	✓	mum handling charge per item										
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

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Ohmite:

[43J7R5](#) [41F560](#) [41F7R5](#) [45F75R](#) [45F47R](#) [45F62R](#) [45F27R](#) [45F40R](#) [45F22R](#) [45F20R](#) [45F25R](#) [45F68R](#)
[41F500](#) [41F5R0](#) [45F82R](#) [45F35R](#) [45F30R](#) [45F39R](#) [45F33R](#) [40J22R](#) [42J120](#) [41F1R5](#) [45F680](#) [41F1R0](#) [41F150](#)
[41F100](#) [45F600](#) [41F180](#) [42J1R5](#) [42J125](#) [43F600](#) [43J2K0](#) [43J6K0](#) [43F680](#) [43F35R](#) [43F47R](#) [43F82R](#) [43F33R](#)
[43F39R](#) [43F25R](#) [43F10R](#) [43F15R](#) [43F12R](#) [43F50R](#) [43F56R](#) [43F75R](#) [43F27R](#) [43F18R](#) [43F20R](#) [43F40R](#)
[43F22R](#) [43F30R](#) [41J2K0](#) [45J225](#) [40F200](#) [42J82R](#) [43F300](#) [40F220](#) [40F225](#) [45J2R2](#) [45J220](#) [45J680](#) [43F7R5](#)
[41J150](#) [45J600](#) [45J1K0](#) [42J400](#) [42J470](#) [41F12R4](#) [42J450](#) [41F900](#) [45J270](#) [42J47R](#) [42J50R](#) [42J20R](#) [43F3R0](#)
[42J18R](#) [42J68R](#) [43F390](#) [42J27R](#) [42J10R](#) [42J25R](#) [42J15R](#) [42J62R](#) [42J22R](#) [45J200](#) [42J12R](#) [43F350](#) [42J56R](#)
[42J40R](#) [40F40K](#) [40F2K0](#) [40F7K0](#) [40F8K0](#) [40F3K0](#) [40F4K0](#) [40F6K0](#) [40F5K0](#) [40F9K0](#) [45J900](#)