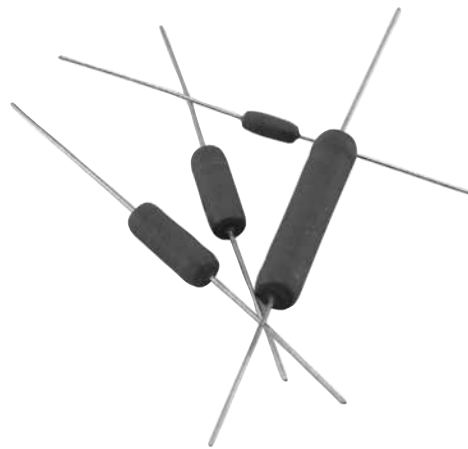


40 Series

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

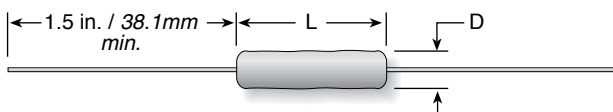
Non-Inductive versions available. Insert "N" before tolerance code.
Example: 42NJ27R

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

*For Non-inductive versions, the diameter shown in the table may be different.

(continued)

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

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 minimum handling charge per item												
56	--56R	✓	✓	*	*			✓	✓	✓	✓	✓	1,800	--1K8	✓	*	*	✓		✓	*	*	✓	✓	✓													
62	--62R	✓	✓	✓	✓			*	*	*	✓	✓	2,000	--2K0	✓	✓	*	✓		*	*	✓	✓	✓	✓													

40 Series	Non-Inductive Winding		
Ohmicone®	<i>optional</i>		
Silicone Ceramic	(blank= std. winding)	RoHS Compliant	
Conformal Axial			
Term. Wirewound			
41 NJR 10 E - T			Tape & reel
			<i>optional</i>
Wattage	Tolerance	Resistance	pc/reel:
1 = 1W	F = 1%	R10 = 0.10Ω	41: 5000
2	J = 5%	1R0 = 1.0Ω	42: 1250
3		10R = 10.0Ω	43: 1250
5		250 = 250Ω	45: 1000
7		1K0 = 1,000Ω	47: 500
0 = 10W		4K5 = 4,500Ω	40: 500
		50K = 50,000Ω	