

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.

SPECIFICATIONS

MATERIAL

Coating: Conformal silicone-ceramic.

Core: Ceramic.

Terminals: Solder-coated copper clad axial lead.

DERATING

Linearly from

100% @ +25°C to
0% @ +275°C.

ELECTRICAL

Tolerance: ±5% (J type), ±1% (F type) (other tolerances available).

Power rating: Based on 25°C free air rating (other wattages available).

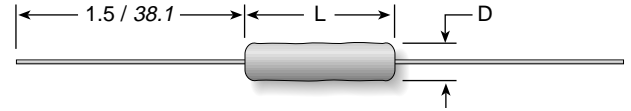
Overload: Under 5 watts: 5 times rated wattage for 5 seconds. 5 watts and over: 10 times rated wattage for 5 seconds.

Temperature coefficient:

Under 1 ohm: ±90 ppm/°C
1W to 9.99 ohms: ±50 ppm/°C
10 ohms and over: ±20 ppm/°C

40 Series

Ohmicone[®] Silicone-Ceramic
Conformal Axial Lead Wirewound
Resistors
1% and 5% Tolerances Standard



FEATURES

- **Economical**
- **Applications include commercial, industrial and communications equipment**
- **Stability under high temperature conditions**
- **All-welded construction**
- **CECC sizes available**

Series	Wattage	Ohms	Dimensions (in. / mm)		Voltage	Lead ga.
			Length	Diam.		
41	1.0	0.10-6.7K	0.437 / 11.1	0.125 / 3.2	150	24
42	2.0	0.10-8.7K	0.406 / 10.3	0.219 / 5.6	100	20
43	3.0	0.10-22K	0.593 / 15.1	0.218 / 5.5	200	20
45	5.0	0.10-81K	0.937 / 23.8	0.343 / 8.7	460	18
47	7.0	0.10-119K	1.280 / 32.5	0.343 / 8.7	670	18
40	10.0	0.10-223K	1.642 / 41.7	0.406 / 10.3	1000	18

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

STOCK PART NUMBERS FOR STANDARD RESISTANCE VALUES

		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 ↓	41F	43F	45F	40F	41J	42J	43J	45J	40J	Ohmic value	Part No. Prefix → Suffix ↓	41F	43F	45F	40F	41J	42J	43J	45J	40J	Ohmic value	Part No. Prefix → Suffix ↓	41F	43F	45F	40F	41J	42J	43J	45J	40J
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	R100	+	✓	✓	✓	✓	✓	✓	✓	✓	220	220	✓	✓	✓	✓	✓	✓	✓	✓	✓	4,700	4K7	✓	✓	✓	✓	✓	✓	✓	✓	✓
1.5	R150	✓	✓	✓	✓	✓	✓	✓	✓	✓	225	225	+	+	+	+	+	+	+	+	+	5,000	5K0	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	R200	✓	✓	✓	✓	✓	✓	✓	✓	✓	250	250	✓	✓	✓	✓	✓	✓	✓	✓	✓	6,000	6K0	+	+	+	+	+	+	+	+	+
2.2	R220	✓	✓	✓	✓	✓	✓	✓	✓	✓	270	270	✓	✓	✓	✓	✓	✓	✓	✓	✓	6,800	6K8	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	R300	✓	✓	✓	✓	✓	✓	✓	✓	✓	300	300	✓	✓	✓	✓	✓	✓	✓	✓	✓	7,000	7K0	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	R400	✓	✓	✓	✓	✓	✓	✓	✓	✓	330	330	✓	+	+	+	+	+	+	+	+	7,500	7K5	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	R500	✓	✓	✓	✓	✓	✓	✓	✓	✓	350	350	+	+	+	+	+	+	+	+	+	8,000	8K0	✓	+	+	+	+	+	+	+	+
7.5	R750	✓	✓	✓	✓	✓	✓	✓	✓	✓	390	390	✓	✓	✓	✓	✓	✓	✓	✓	✓	9,000	9K0	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	R1000	✓	✓	✓	✓	✓	✓	✓	✓	✓	400	400	✓	✓	✓	✓	✓	✓	✓	✓	✓	10,000	10K	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	R1200	✓	✓	✓	✓	✓	✓	✓	✓	✓	450	450	+	+	+	+	+	+	+	+	+	12,000	12K	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	R1500	✓	✓	+	+	✓	✓	✓	✓	✓	470	470	+	+	+	+	+	+	+	+	+	13,000	13K	✓	✓	✓	✓	✓	✓	✓	✓	✓
18	R1800	+	+	+	+	✓	✓	✓	✓	✓	500	500	✓	✓	✓	✓	✓	✓	✓	✓	✓	15,000	15K	✓	✓	✓	✓	✓	✓	✓	✓	✓
20	R2000	✓	✓	✓	✓	✓	✓	✓	✓	✓	560	560	✓	✓	✓	✓	✓	✓	✓	✓	✓	17,000	17K	✓	✓	✓	✓	✓	✓	✓	✓	✓
22	R2200	✓	✓	✓	✓	✓	✓	✓	✓	✓	600	600	✓	✓	✓	✓	✓	✓	✓	✓	✓	20,000	20K	✓	✓	✓	✓	✓	✓	✓	✓	✓
25	R2500	✓	✓	✓	✓	✓	✓	✓	✓	✓	680	680	✓	✓	✓	✓	✓	✓	✓	✓	✓	22,000	22K	✓	✓	✓	✓	✓	✓	✓	✓	✓
27	R2700	+	+	+	+	✓	✓	✓	✓	✓	750	750	✓	✓	✓	✓	✓	✓	✓	✓	✓	25,000	25K	✓	✓	✓	✓	✓	✓	✓	✓	✓
30	R3000	✓	✓	✓	✓	✓	✓	✓	✓	✓	800	800	✓	✓	✓	✓	✓	✓	✓	✓	✓	30,000	30K	+	+	+	+	+	+	+	+	+
33	R3300	✓	✓	✓	✓	✓	✓	✓	✓	✓	820	820	✓	✓	✓	✓	✓	✓	✓	✓	✓	33,000	33K	✓	✓	✓	✓	✓	✓	✓	✓	✓
35	R3500	✓	✓	✓	✓	✓	✓	✓	✓	✓	900	900	✓	✓	✓	✓	✓	✓	✓	✓	✓	35,000	35K	✓	✓	✓	✓	✓	✓	✓	✓	✓
39	R3900	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,000	1K0	✓	✓	✓	✓	✓	✓	✓	✓	✓	40,000	40K	✓	✓	✓	✓	✓	✓	✓	✓	✓
40	R4000	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,100	1K1	+	+	+	+	+	+	+	+	+	50,000	50K	✓	✓	✓	✓	✓	✓	✓	✓	✓
47	R4700	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,200	1K2	✓	✓	✓	✓	✓	✓	✓	✓	✓											
50	R5000	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,500	1K5	✓	✓	✓	✓	✓	✓	✓	✓	✓											
56	R5600	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,800	1K8	✓	✓	✓	✓	✓	✓	✓	✓	✓											
62	R6200	✓	✓	✓	✓	✓	✓	✓	✓	✓	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.

+ = Most popular stock values
✓ = Stock values
+ = Non-stock values subject to minimum handling charge per item

