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ELECTRONICS

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Jameco Part Number 281834

40 Series

Ohmicon[®], Silicone-Ceramic Conformal Axial Lead Wirewound Resistors 1% and 5% Tolerances 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
- CECC sizes available

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.

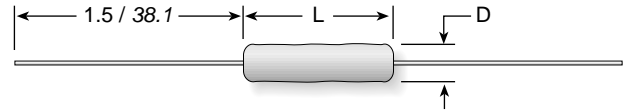
Electrical

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 1Ω: ±90 ppm/°C
1Ω to 9.99Ω: ±50 ppm/°C
10Ω and over: ±20 ppm/°C



Series	Wattage	Ohms	Dimensions (in. / mm)		Voltage	Lead ga.
			Length	Diam.		
41	1.0	0.10-6K	0.437 / 11.1	0.125 / 3.2	150	24
42	2.0	0.10-8K	0.406 / 10.3	0.219 / 5.6	100	20
43	3.0	0.10-20K	0.593 / 15.1	0.218 / 5.5	200	20
45	5.0	0.10-70K	0.937 / 23.8	0.343 / 8.7	460	18
47	7.0	0.10-80K	1.280 / 32.5	0.343 / 8.7	670	18
40	10.0	0.10-150K	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																			
Ohmic value	Part No. Prefix Suffix	1% Tolerance				5% Tolerance				Ohmic value	Part No. Prefix Suffix	1% Tolerance				5% Tolerance				Ohmic value	Part No. Prefix Suffix	1% Tolerance				5% Tolerance					
		1	3	5	10	1	2	3	5			10	1	3	5	10	1	2	3			5	10	1	3	5	10	1	2	3	5
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.