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ELECTRONICS

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Jameco Part Number 281834

40 Series

Ohmicone®, 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.

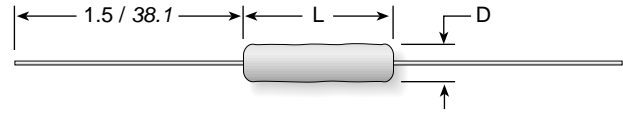
Electrical

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

Ohmic value		Wattage and Tolerance										Ohmic value		Wattage and Tolerance										Ohmic value		Wattage and Tolerance									
		1% Tolerance					5% Tolerance							1% Tolerance					5% Tolerance							1% Tolerance					5% Tolerance				
Part No. Prefix Suffix	Part No. Prefix Suffix	1	3	5	10	1	2	3	5	10	Part No. Prefix Suffix	Part No. Prefix Suffix	1	3	5	10	1	2	3	5	10	Part No. Prefix Suffix	Part No. Prefix Suffix	1	3	5	10	1	2	3	5	10			
0.1 — R10	41F	✓	+	+	+	+	+	+	+	+	68 — 68R	41F	✓	✓	✓	✓	✓	✓	✓	✓	✓	2,200 — 2K2	41F	✓	✓	✓	✓	✓	✓	✓	✓				
0.15 — R15	43F	✓	+	+	+	+	+	+	+	+	75 — 75R	43F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2,500 — 2K5	43F	✓	✓	✓	✓	✓	✓	✓	✓			
0.2 — R20	45F	✓	+	+	+	+	+	+	+	+	82 — 82R	45F	+	+	+	+	+	+	+	+	+	+	2,700 — 2K7	45F	+	+	+	+	+	+	+	+			
0.25 — R25	40F	✓	✓	✓	✓	✓	✓	✓	✓	✓	100 — 100	40F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3,000 — 3K0	40F	✓	✓	✓	✓	✓	✓	✓	✓			
0.3 — R30	41J	✓	✓	✓	✓	✓	✓	✓	✓	✓	120 — 120	41J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3,300 — 3K3	41J	✓	✓	✓	✓	✓	✓	✓	✓			
0.33 — R33	42J	✓	✓	✓	✓	✓	✓	✓	✓	✓	125 — 125	42J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3,500 — 3K5	42J	✓	✓	✓	✓	✓	✓	✓	✓			
0.4 — R40	43J	✓	✓	✓	✓	✓	✓	✓	✓	✓	150 — 150	43J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3,900 — 3K9	43J	✓	✓	✓	✓	✓	✓	✓	✓			
0.5 — R50	45J	✓	+	+	+	+	+	+	+	+	180 — 180	45J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4,000 — 4K0	45J	✓	✓	✓	✓	✓	✓	✓	✓			
0.75 — R75	40J	✓	+	+	+	+	+	+	+	+	200 — 200	40J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4,500 — 4K5	40J	✓	✓	✓	✓	✓	✓	✓	✓			
1 — 1R0	41J	+	+	+	+	+	+	+	+	+	220 — 220	41J	+	+	+	+	+	+	+	+	+	+	4,700 — 4K7	41J	+	+	+	+	+	+	+	+			
1.5 — 1R5	42J	✓	✓	✓	✓	✓	✓	✓	✓	✓	225 — 225	42J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5,000 — 5K0	42J	✓	✓	✓	✓	✓	✓	✓	✓			
2 — 2R0	43J	✓	✓	✓	✓	✓	✓	✓	✓	✓	250 — 250	43J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6,000 — 6K0	43J	✓	✓	✓	✓	✓	✓	✓	✓			
2.2 — 2R2	45J	✓	✓	✓	✓	✓	✓	✓	✓	✓	270 — 270	45J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6,800 — 6K8	45J	✓	✓	✓	✓	✓	✓	✓	✓			
3 — 3R0	40J	✓	✓	✓	✓	✓	✓	✓	✓	✓	300 — 300	40J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7,000 — 7K0	40J	✓	✓	✓	✓	✓	✓	✓	✓			
4 — 4R0	41J	✓	✓	✓	✓	✓	✓	✓	✓	✓	330 — 330	41J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7,500 — 7K5	41J	✓	✓	✓	✓	✓	✓	✓	✓			
5 — 5R0	42J	✓	✓	✓	✓	✓	✓	✓	✓	✓	350 — 350	42J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8,000 — 8K0	42J	✓	✓	✓	✓	✓	✓	✓	✓			
7.5 — 7R5	43J	✓	✓	✓	✓	✓	✓	✓	✓	✓	390 — 390	43J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9,000 — 9K0	43J	✓	✓	✓	✓	✓	✓	✓	✓			
10 — 10R	45J	✓	✓	✓	✓	✓	✓	✓	✓	✓	400 — 400	45J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10,000 — 10K	45J	✓	✓	✓	✓	✓	✓	✓	✓			
12 — 12R	40J	✓	✓	✓	✓	✓	✓	✓	✓	✓	450 — 450	40J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12,000 — 12K	40J	✓	✓	✓	✓	✓	✓	✓	✓			
15 — 15R	41J	✓	✓	✓	✓	✓	✓	✓	✓	✓	470 — 470	41J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13,000 — 13K	41J	✓	✓	✓	✓	✓	✓	✓	✓			
18 — 18R	42J	✓	✓	✓	✓	✓	✓	✓	✓	✓	500 — 500	42J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15,000 — 15K	42J	✓	✓	✓	✓	✓	✓	✓	✓			
20 — 20R	43J	✓	✓	✓	✓	✓	✓	✓	✓	✓	560 — 560	43J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	17,000 — 17K	43J	✓	✓	✓	✓	✓	✓	✓	✓			
22 — 22R	45J	✓	✓	✓	✓	✓	✓	✓	✓	✓	600 — 600	45J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	20,000 — 20K	45J	✓	✓	✓	✓	✓	✓	✓	✓			
25 — 25R	40J	✓	✓	✓	✓	✓	✓	✓	✓	✓	680 — 680	40J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22,000 — 22K	40J	✓	✓	✓	✓	✓	✓	✓	✓			
27 — 27R	41J	✓	✓	✓	✓	✓	✓	✓	✓	✓	750 — 750	41J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	25,000 — 25K	41J	✓	✓	✓	✓	✓	✓	✓	✓			
30 — 30R	42J	✓	✓	✓	✓	✓	✓	✓	✓	✓	800 — 800	42J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	30,000 — 30K	42J	+	+	+	+	+	+	+	+			
33 — 33R	43J	✓	✓	✓	✓	✓	✓	✓	✓	✓	820 — 820	43J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	33,000 — 33K	43J	✓	✓	✓	✓	✓	✓	✓	✓			
35 — 35R	45J	✓	✓	✓	✓	✓	✓	✓	✓	✓	900 — 900	45J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	35,000 — 35K	45J	✓	✓	✓	✓	✓	✓	✓	✓			
39 — 39R	40J	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,000 — 1K0	40J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	40,000 — 40K	40J	✓	✓	✓	✓	✓	✓	✓	✓			
40 — 40R	41J	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,100 — 1K1	41J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	50,000 — 50K	41J	✓	✓	✓	✓	✓	✓	✓	✓			
47 — 47R	42J	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,200 — 1K2	42J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓													
50 — 50R	43J	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,500 — 1K5	43J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓													
56 — 56R	45J	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,800 — 1K8	45J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓													
62 — 62R	40J	✓	✓	✓	✓	✓	✓	✓	✓	✓	2,000 — 2K0	40J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓													

Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.