



42JR15E
OHMITE

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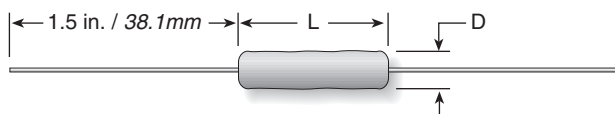
Company Address

Arrow Electronics, Inc
9201 East Dry Creek Road
Centennial, CO 80112

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40 Series

Ohmite® Silicone-Ceramic Conformal Axial Term. Wirewound, 1% and 5% Tol. Std.



Series	Wattage	Ohms	Dimensions (in./mm max.)		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	0.219 / 5.6	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	1.900 / 48.3	0.406 / 10.3	1000	18

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

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.

SPECIFICATIONS

Material

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.

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

ORDERING INFO

40 Series
Ohmite®
Silicone Ceramic
Conformal Axial
Term. Wirewound

Non-Inductive
Winding
Optional (blank
= std. winding)

41 N J R 10 E

Wattage

1 = 1W
2
3
5
7
0 = 10W

Tolerance

F = 1%
J = 5%

Resistance Value

R10 = 0.10Ω
1R0 = 1.0Ω
10R = 10.0Ω
250 = 250Ω
1K0 = 1,000Ω
4K5 = 4,500Ω
50K = 50,000Ω

RoHS Compliant

STANDARD PART NUMBERS FOR 40 SERIES

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