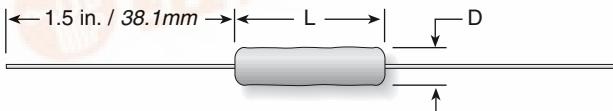


查询90NJ10RE供应商

90 Series

Lead Free Vitreous Enamel Molded Axial Term. Wirewound, 5% Tolerance Standard



Series	Wattage*	Ohms	Dimensions (in. / mm)				
			Length	Diam.	Voltage	Lead ga.	
91	1.5	0.1Ω-3.6K	0.452 / 11.5	0.140 / 3.6	150	24	
92	2.25	0.1Ω-3.5K	0.405 / 10.3	0.219 / 5.6	85	20	
93	3.25	0.1Ω-10.5K	0.577 / 14.7	0.234 / 5.9	200	20	
95	5.0	0.1Ω-25K	0.968 / 24.6	0.234 / 5.9	495	20	
90	11.0	0.1Ω-91K	1.796 / 45.6	0.343 / 8.7	1080	20	

* 2x power ratings by using heat-sink mounting clips shown on following page.

Note: Due to space restrictions, parts are stamped with wattage ratings reduced to the nearest whole number. The actual wattage ratings are as published in this catalog.

ORDERING INFORMATION

Non-Inductive Winding Optional (blank = std. winding)	RoHS Compliant
9 1 N J R 1 0 E	
90 Series	Wattage
Series-Lead	1 = 1.5W
Free Vitreous	2 = 2.25W
Enamel Molded	3 = 3.25W
Axial Term.	5 = 5W
Wirewound	0 = 11W

STANDARD PART NUMBERS FOR 90 SERIES

Ohmic value	Wattage					Ohmic value	Wattage					Ohmic value	Wattage					Ohmic value	Wattage						
	Part No. Prefix ▶ Suffix ▼	1.5 91J	2.25 92J	3.25 93J	5 95J	11 90J	Part No. Prefix ▶ Suffix ▼	1.5 91J	2.25 92J	3.25 93J	5 95J	11 90J	Part No. Prefix ▶ Suffix ▼	1.5 91J	2.25 92J	3.25 93J	5 95J	11 90J	Part No. Prefix ▶ Suffix ▼	1.5 91J	2.25 92J	3.25 93J	5 95J	11 90J	
1 — 1R0	✓ ✓ ✓ ✓ ✓ ✓	22 — 22R	✓ ✓ ✓ ✓ ✓ ✓	350 — 350	✓ ✓ ✓ ✓ ✓ ✓	3,500 — 3K5	✓ ✓ ✓	13,000 — 13K	✓ ✓																
1.1 — 1R1	✓ ✕ ✕ ✕ ✕ ✕	24 — 24R	✖ ✕ ✕ ✕ ✕ ✕	360 — 360	✓ ✕ ✕ ✕ ✕ ✕	3,600 — 3K6	✓ ✕ ✕	14,000 — 14K	✓ ✕																
1.2 — 1R2	✓ ✕ ✕ ✕ ✕ ✕	25 — 25R	✖ ✕ ✕ ✕ ✕ ✕	390 — 390	✓ ✕ ✕ ✕ ✕ ✕	3,900 — 3K9	✓ ✕ ✕	15,000 — 15K	✓ ✕																
1.3 — 1R3	✓ ✕ ✕ ✕ ✕ ✕	27 — 27R	✖ ✕ ✕ ✕ ✕ ✕	400 — 400	✓ ✕ ✕ ✕ ✕ ✕	4,000 — 4K0	✓ ✕ ✕	16,000 — 16K	✓ ✕																
1.5 — 1R5	✓ ✕ ✕ ✕ ✕ ✕	30 — 30R	✖ ✕ ✕ ✕ ✕ ✕	430 — 430	✓ ✕ ✕ ✕ ✕ ✕	4,300 — 4K3	✖ ✕ ✕	17,000 — 17K	✖ ✕																
1.6 — 1R6	✖ ✕ ✕ ✕ ✕ ✕	33 — 33R	✓ ✕ ✕ ✕ ✕ ✕	450 — 450	✖ ✕ ✕ ✕ ✕ ✕	4,500 — 4K5	✓ ✕ ✕	18,000 — 18K	✓ ✕																
1.8 — 1R8	✓ ✕ ✕ ✕ ✕ ✕	35 — 35R	✓ ✕ ✕ ✕ ✕ ✕	470 — 470	✓ ✕ ✕ ✕ ✕ ✕	4,700 — 4K7	✓ ✕ ✕	20,000 — 20K	✓ ✕																
2 — 2R0	✓ ✕ ✕ ✕ ✕ ✕	36 — 36R	✓ ✕ ✕ ✕ ✕ ✕	500 — 500	✓ ✕ ✕ ✕ ✕ ✕	5,000 — 5K0	✓ ✕ ✕	22,000 — 22K	✓ ✕																
2.2 — 2R2	✓ ✕ ✕ ✕ ✕ ✕	39 — 39R	✓ ✕ ✕ ✕ ✕ ✕	510 — 510	✖ ✕ ✕ ✕ ✕ ✕	5,100 — 5K1	✖ ✕ ✕	24,000 — 24K	✖ ✕																
2.4 — 2R4	✓ ✕ ✕ ✕ ✕ ✕	40 — 40R	✖ ✕ ✕ ✕ ✕ ✕	560 — 560	✖ ✕ ✕ ✕ ✕ ✕	5,600 — 5K6	✓ ✕ ✕	25,000 — 25K	✓ ✕																
2.7 — 2R7	✓ ✕ ✕ ✕ ✕ ✕	43 — 43R	✖ ✕ ✕ ✕ ✕ ✕	600 — 600	✓ ✕ ✕ ✕ ✕ ✕	6,000 — 6K0	✓ ✕ ✕	27,000 — 27K	✓ ✕																
3 — 3R0	✓ ✕ ✕ ✕ ✕ ✕	47 — 47R	✓ ✕ ✕ ✕ ✕ ✕	620 — 620	✓ ✕ ✕ ✕ ✕ ✕	6,200 — 6K2	✓ ✕ ✕	30,000 — 30K	✓ ✕																
3.3 — 3R3	✓ ✕ ✕ ✕ ✕ ✕	50 — 50R	✓ ✕ ✕ ✕ ✕ ✕	680 — 680	✓ ✕ ✕ ✕ ✕ ✕	6,800 — 6K8	✓ ✕ ✕	33,000 — 33K	✓ ✕																
3.6 — 3R6	✖ ✕ ✕ ✕ ✕ ✕	51 — 51R	✖ ✕ ✕ ✕ ✕ ✕	700 — 700	✖ ✕ ✕ ✕ ✕ ✕	7,000 — 7K0	✓ ✕ ✕	35,000 — 35K	✓ ✕																
3.9 — 3R9	✓ ✕ ✕ ✕ ✕ ✕	56 — 56R	✓ ✕ ✕ ✕ ✕ ✕	750 — 750	✓ ✕ ✕ ✕ ✕ ✕	7,500 — 7K5	✓ ✕ ✕	36,000 — 36K	✓ ✕																
4 — 4R0	✓ ✕ ✕ ✕ ✕ ✕	62 — 62R	✓ ✕ ✕ ✕ ✕ ✕	800 — 800	✓ ✕ ✕ ✕ ✕ ✕	8,000 — 8K0	✓ ✕ ✕	39,000 — 39K	✓ ✕																
4.3 — 4R3	✖ ✕ ✕ ✕ ✕ ✕	68 — 68R	✓ ✕ ✕ ✕ ✕ ✕	820 — 820	✓ ✕ ✕ ✕ ✕ ✕	8,200 — 8K2	✓ ✕ ✕	40,000 — 40K	✓ ✕																
4.7 — 4R7	✓ ✕ ✕ ✕ ✕ ✕	75 — 75R	✓ ✕ ✕ ✕ ✕ ✕	900 — 900	✖ ✕ ✕ ✕ ✕ ✕	9,000 — 9K0	✓ ✕ ✕	43,000 — 43K	✓ ✕																
5 — 5R0	✓ ✕ ✕ ✕ ✕ ✕	82 — 82R	✓ ✕ ✕ ✕ ✕ ✕	910 — 910	✖ ✕ ✕ ✕ ✕ ✕	9,100 — 9K1	✓ ✕ ✕	45,000 — 45K	✓ ✕																
5.1 — 5R1	✖ ✕ ✕ ✕ ✕ ✕	91 — 91R	✖ ✕ ✕ ✕ ✕ ✕	1,000 — 1K0	✓ ✕ ✕ ✕ ✕ ✕	10,000 — 10K	✓ ✕ ✕	47,000 — 47K	✓ ✕																
5.6 — 5R6	✓ ✕ ✕ ✕ ✕ ✕	100 — 100	✓ ✕ ✕ ✕ ✕ ✕	1,100 — 1K1	✖ ✕ ✕ ✕ ✕ ✕	11,000 — 11K	✖ ✕	50,000 — 50K	✖ ✕																
6.2 — 6R2	✖ ✕ ✕ ✕ ✕ ✕	110 — 110	✓ ✕ ✕ ✕ ✕ ✕	1,200 — 1K2	✓ ✕ ✕ ✕ ✕ ✕	12,000 — 12K	✓ ✕	51,000 — 51K	✓ ✕																
6.8 — 6R8	✓ ✕ ✕ ✕ ✕ ✕	120 — 120	✓ ✕ ✕ ✕ ✕ ✕	1,300 — 1K3	✓ ✕ ✕ ✕ ✕ ✕																				
7.5 — 7R5	✖ ✕ ✕ ✕ ✕ ✕	130 — 130	✖ ✕ ✕ ✕ ✕ ✕	1,400 — 1K4	✖ ✕ ✕ ✕ ✕ ✕																				
8.2 — 8R2	✖ ✕ ✕ ✕ ✕ ✕	150 — 150	✓ ✕ ✕ ✕ ✕ ✕	1,500 — 1K5	✓ ✕ ✕ ✕ ✕ ✕																				
9.1 — 9R1	✖ ✕ ✕ ✕ ✕ ✕	160 — 160	✓ ✕ ✕ ✕ ✕ ✕	1,600 — 1K6	✖ ✕ ✕ ✕ ✕ ✕																				
10 — 10R	✓ ✕ ✕ ✕ ✕ ✕	180 — 180	✓ ✕ ✕ ✕ ✕ ✕	1,800 — 1K8	✓ ✕ ✕ ✕ ✕ ✕																				
11 — 11R	✖ ✕ ✕ ✕ ✕ ✕	200 — 200	✓ ✕ ✕ ✕ ✕ ✕	2,000 — 2K0	✓ ✕ ✕ ✕ ✕ ✕																				
12 — 12R	✓ ✕ ✕ ✕ ✕ ✕	220 — 220	✓ ✕ ✕ ✕ ✕ ✕	2,200 — 2K2	✓ ✕ ✕ ✕ ✕ ✕																				
13 — 13R	✖ ✕ ✕ ✕ ✕ ✕	240 — 240	✖ ✕ ✕ ✕ ✕ ✕	2,400 — 2K4	✓ ✕ ✕ ✕ ✕ ✕																				
15 — 15R	✓ ✕ ✕ ✕ ✕ ✕	250 — 250	✓ ✕ ✕ ✕ ✕ ✕	2,500 — 2K5	✓ ✕ ✕ ✕ ✕ ✕																				
16 — 16R	✓ ✕ ✕ ✕ ✕ ✕	270 — 270	✓ ✕ ✕ ✕ ✕ ✕	2,700 — 2K7	✓ ✕ ✕ ✕ ✕ ✕																				
18 — 18R	✓ ✕ ✕ ✕ ✕ ✕	300 — 300	✓ ✕ ✕ ✕ ✕ ✕	3,000 — 3K0	✓ ✕ ✕ ✕ ✕ ✕																				
20 — 20R	✓ ✕ ✕ ✕ ✕ ✕	330 — 330	✓ ✕ ✕ ✕ ✕ ✕	3,300 — 3K3	✓ ✕ ✕ ✕ ✕ ✕																				

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- RoHS compliant; add "E" suffix to part number to specify.

SPECIFICATIONS

Material

Coating: Molded lead free vitreous enamel.

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% @ +350°C.

Electrical

Tolerance: ±5%

(other tolerances available).

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

Maximum ohmic values:

See chart.

Overload:

Under 11 watts: 5 times rated wattage for 5 seconds.

11 watts: 10 times rated wattage for 5 seconds.

Temperature coefficient:

1 to 9.99Ω: ±100 ppm/°C

10Ω and over: ±30 ppm/°C

Dielectric withstand voltage:

500 VAC: 1W rating

1000 VAC: 2, 3, 5 and 11W

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

Check product availability at www.ohmite.com

FEATURES

- Prevents severe vibration or mechanical shock to resistor
- Increases resistor wattage up to 100% when mounted on metal surface (1.5 sq. in. by 0.040 in. thick min. per watt dissipated)
- Holes in clip base permit fastening to chassis surface with machine screws, eyelets or rivets
- Sold in bags of ten (10)



Mounting Clip

For 90 Series

STANDARD PART NUMBERS FOR 90 SERIES MOUNTING CLIP						
Part No.	Resistor rating (watts)	Clip length (in./mm)	Clip width (in./mm)	Clip height (in./mm)	No. of holes	Hole centers (in./mm)
✓ 5900	1.5	0.40 / 10.319	0.150 / 3.810	0.250 / 6.350	1	0.71 / 1.803
✓ 5902	2.25	0.35 / 8.890	0.217 / 5.500	0.275 / 6.980	2	0.156 / 3.969
+ 5904	3.25	0.50 / 12.700	0.257 / 6.500	0.319 / 8.103	2	0.250 / 6.350
+ 5906	5.0	0.90 / 22.860	0.237 / 6.019	0.284 / 7.214	2	0.400 / 10.160
+ 5908	11.0	1.75 / 44.450	0.333 / 8.458	0.377 / 9.576	2	0.800 / 20.320
						0.103 / 2.616

+ = Most popular standard values

✓ = Standard values

✗ = Non-standard values subject to minimum handling charge per item