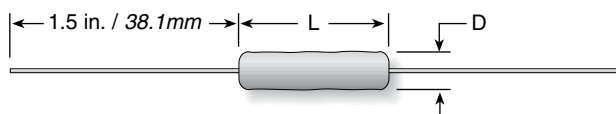


**Lead Free Vitreous Enamel Molded
Axial Term. Wirewound, 5% Tolerance Standard**



Series	Wattage*	Ohms	Dimensions (in. / mm)		Voltage	Lead ga.
			Length	Diam.		
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

91NJR10E

90 Series	Wattage	Tolerance	Resistance Value
Series-Lead	1 = 1.5W	J = 5%	1R0 = 1.0Ω
Free Vitreous Enamel Molded Axial Term.	2 = 2.25W		10R = 10.0Ω
	3 = 3.25W		250 = 250Ω
	5 = 5W		1K = 1,000Ω
Wirewound	0 = 11W		4K = 4,000Ω
			51K = 51,000Ω

When you need the highest quality wirewound axial terminal resistors available, choose Ohmite's 90 Series resistors.

They are manufactured by a unique process that molds the vitreous enamel over the resistive element, helping to ensure consistent dimensions. This uniformity permits 90 Series resistors to be mounted in clips, creating a heat-sinking benefit (see next page).

The durable vitreous enamel coating, which is totally lead free, permits the 90 Series resistors to maintain a hard coating while operating at high temperatures. Mechanical integrity is enhanced by the all-welded construction.

FEATURES

- Molded Construction provides consistent shape and size (Permits mounting in clips which extends power rating).
- Meets MIL-R-26 requirements for insulated resistors.
- All-welded construction.
- Flame resistant lead free vitreous enamel coating.
- Higher ratings in smaller sizes.
- Heat sink mounting clips available.

- 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: $\pm 5\%$
(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 withstanding voltage:

500 VAC: 1W rating
1000 VAC: 2, 3, 5 and 11W

STANDARD PART NUMBERS FOR 90 SERIES

[illegible]

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)	Hole diameter (in./mm)	
✓ 5900	1.5	0.40 / 10.319	0.150 / 3.810	0.250 / 6.350	1		0.71 / 1.803	✚ = Most popular standard values
✓ 5902	2.25	0.35 / 8.890	0.217 / 5.500	0.275 / 6.980	2	0.156 / 3.969	0.71 / 1.803	✓ = Standard values
✚ 5904	3.25	0.50 / 12.700	0.257 / 6.500	0.319 / 8.103	2	0.250 / 6.350	0.093 / 2.362	✚ = Non-standard values subject to minimum handling charge per item
✚ 5906	5.0	0.90 / 22.860	0.237 / 6.019	0.284 / 7.214	2	0.400 / 10.160	0.103 / 2.616	
✚ 5908	11.0	1.75 / 44.450	0.333 / 8.458	0.377 / 9.576	2	0.800 / 20.320	0.103 / 2.616	