

SUPERES

WIRE WOUND AUDIO RESISTORS

Available in 5-watt & 10-watt



PRODUCT FEATURES

The Superes resistors are the highest quality wire wound audio grade resistors.

They feature a high temperature tolerance and are very resistant to shock.

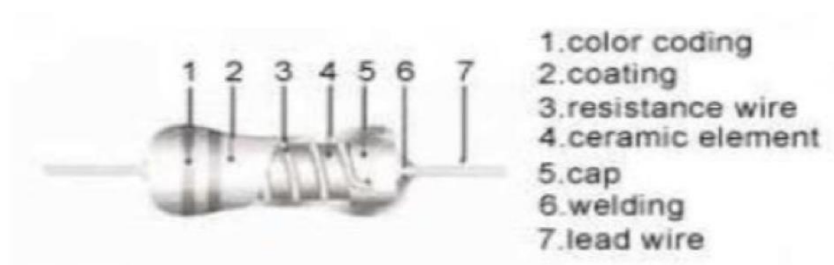
These resistors have always been a staple for high-end audio manufacturers and DIY enthusiasts.

The Superes resistors offer high-end performance, but at an affordable price point.

Available in both 5 watt and 10 watt.

TECHNICAL DATA (Part 1 of 2)

- Wire wound high-end audio resistors
- Conductor type and material: Wire wound (CuNi or NiCr)
- Resistance tolerance: +/- 1%
- Instant overload capacity
- Very high heat dissipation with a small linear temperature coefficient
- Low annual shift
- Flame proof wrapping
- **Dimension 5-watt resistors: \varnothing 6 mm/L 19 mm**
- **Dimension 10-watt resistors: \varnothing 8.5 mm/L 53 mm**



Superes 1%	Dimension(mm)				Resistance Range(Ω)	Dielectric Withstandi ng Voltage
	D \pm 1	L \pm 1	H \pm 3	d \pm 0.1		
5W	6.5	19	38	0.8	0.47~33	500V
10W	8.5	53	38	0.8	0.47~33	1000V

TECHNICAL DATA (Part 2 of 2)

- Operating temperature range: -55°C~200°C
- Resistance temperature coefficient:

It shall be within $\pm 300\text{ppm}/^\circ\text{C}$ (under 1Ω shall be within $\pm 500\text{ppm}/^\circ\text{C}$)

$$\text{T.C (ppm}/^\circ\text{C)} = [(R2 - R1) \div R1] \times [1 \div (T2 - T1)] \times 10^6$$

where

R1: resistance value at reference temperature

R2: resistance value at test temp.

T1: reference temp. (usu. 25°C)

T2: test temp. (about 75°C)

- Temperature cycle:

Following temp. cycles are to be made 5 times and then put at room temp. for one hour, the resistance value change rate between pre-and-post test shall be within $\pm 1\%$.

Steps	Temperature($^\circ\text{C}$)	Time (minutes)
1 st step	-55 ± 3	30
2 nd step	Room temp.	3
3 rd step	200 ± 3	30
4 th step	Room temp.	3

