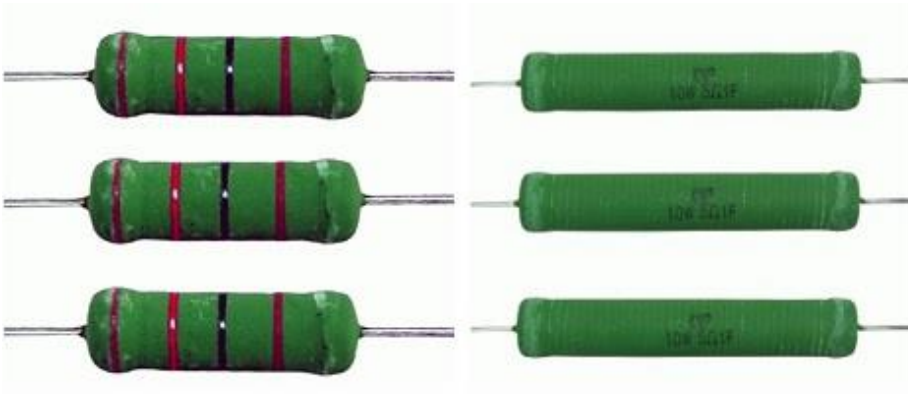


# SUPERES RESISTORS



The Superes resistors are the highest quality resistors, but still affordable in price. These resistors have long been the favorites of high-end audio manufacturers and DIY enthusiasts.

## HIGHLIGHTS

Available in 5 and 10 watt versions

Top quality resistors for high-end audio application

A favorite amongst high-end manufacturers and DIY enthusiasts

High temperature tolerance and resistant to humidity and shock

## TECHNICAL INFORMATION

- Wire wound high-end audio resistors
- Resistance tolerance: 1%
- Very low noise figure and low inductance of  $<0.7 \mu\text{H}$
- Instant overload capacity
- Very high heat dissipation with a small linear temperature coefficient
- Low annual shift
- Flame proof wrapping



Superes 1%	Dimension(mm)				Resistance Range( $\Omega$ )	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

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

- **Resistance temperature coefficient:**

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

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

where

R1: resistance value at reference temperature

R2: resistance value at test temp.

T1: reference temp. (usu.  $25^\circ\text{C}$ )

T2: test temp. (about  $75^\circ\text{C}$ )

- **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 <sup>st</sup> step	$-55 \pm 3$	30
2 <sup>nd</sup> step	Room temp.	3
3 <sup>rd</sup> step	$200 \pm 3$	30
4 <sup>th</sup> step	Room temp.	3

