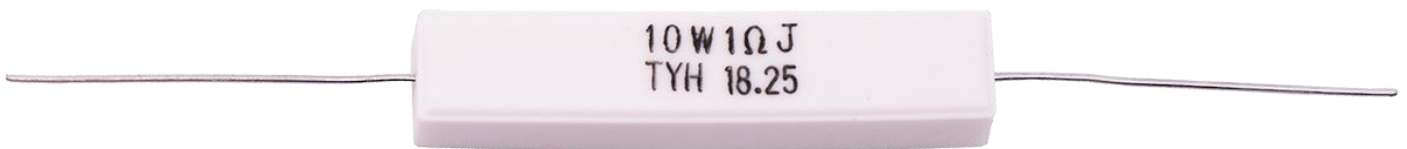
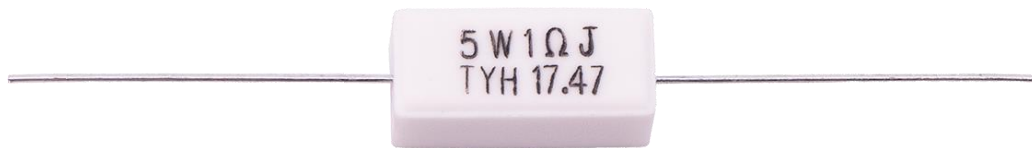


# JANTZEN AUDIO

## CERAMIC RESISTOR

Available in 5-watt / 10-watt / 20-watt



# PRODUCT FEATURES

The Ceramic resistors are affordable resistors and a stable in OEM speaker production.

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

The Ceramic resistors offer solid performance, at a very affordable price point.

# TECHNICAL DATA (Part 1 of 2)

- Small in dimensions, excellent in stability with high tolerance for temperature, humidity, and shock
- Conductor type and material: Wire wound (CuNi / NiCr)
- Tolerance: +/- 5%
- Completely insulated making them highly suitable for PCB crossover application
- In the high values the winding cores are replaced by high power handling film
- Instant overload capacity, low noise figure and low annual shift in resistance value
- Max overload voltage is 2 times of max. working voltage
- Power handling film means that decreasing the resistance values compared to models with wound resistance wire
- **Dimensions for 5-watt ceramic resistors:** 23 mm / 10 mm / 10 mm
- **Dimensions for 10-watt ceramic resistors:** 48 mm / 10 mm / 10 mm
- **Dimensions for 20-watt ceramic resistors:** 61 mm / 15 mm / 15 mm

# TECHNICAL DATA (Part 2 of 2)

- Operating temperature range: -55°C ~ 155°C
- Resistance temperature coefficient:

It shall be within  $\pm 300 \text{ppm}/^\circ\text{C}$  and if the ohmic value is under  $1\Omega$  the T.C. shall be within  $\pm 600 \text{ppm}/^\circ\text{C}$ .

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

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(°C)	Time (minutes)
1 <sup>st</sup> step	-55±3	30
2 <sup>nd</sup> step	Room temp.	3
3 <sup>rd</sup> step	155±3	30
4 <sup>th</sup> step	Room temp.	3

