

JANTZEN AUDIO

CERAMIC RESISTOR

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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.

Available in 5, 10 and 20 watt.

TECHNICAL DATA (Part 1 of 2)

- Small in dimensions, excellent in stability with high tolerance for temperature, humidity, and shock
- Resistance 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: 23 mm/ 10 mm / 10 mm
- Dimensions for 10 watt Ceramic: 48 mm/ 10 mm / 10 mm
- Dimensions for 20 watt Ceramic: 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 1Ω 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($^\circ\text{C}$)	Time (minutes)
1 st step	-55 ± 3	30
2 nd step	Room temp.	3
3 rd step	155 ± 3	30
4 th step	Room temp.	3

