

Carbon Film Resistors

Carbon Film Resistors are Cost-Effective Option

Preview

Providing design engineers with an economical power resistor with high quality performance, Token Electronics now offers commercial grade low power carbon film resistors.

Designated the CF series, the resistors are available in both standard CFN and miniature CFS sizes, the conformally coated resistors offer high quality performance for applications that do not require surge protection or precision tolerances.

The commercial grade carbon CF series is available in flame retardant packaging and have ideal specifications for consumer electronic or electrical devices. The CF devices offer a wide resistance range for devices with power ratings up to 3W in standard CFN size, and 5W in miniature CFS sizes, delivering high quality performance for general purpose applications.

The CF series resistors are ideal for general use applications including electrical equipment, small appliances and consumer electronics, such as televisions and other high-volume products. The CF series feature standard tolerances is G ($\pm 2\%$) and J ($\pm 5\%$), with a resistance range from 0.5 Ω to 22M Ω .

All CF series devices are RoHS-compliant, and compatible with high temperature soldering processes normally employed for lead free solders. Also, CF resistors are available in various forming styles and different leads for different applications. Contact us with your specific needs.

Features

- Tolerances: G ($\pm 2\%$), J ($\pm 5\%$)
- Power wattages up to 5W at +25°C
- Lead (Pb)-free and RoHS compliant
- Operating temperature range: -55°C~+155°C
- Axial leaded type, high power at small sizes

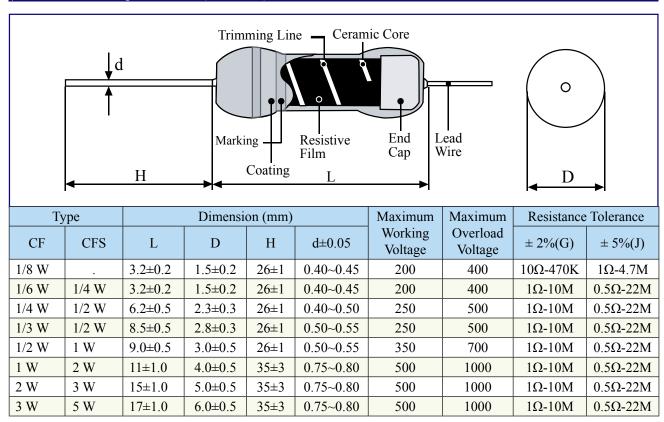
> Applications

- Consumer Electronic
- Telecommunications
- Household Appliances
- Automotive, Computer, Instrumentation





Dimensions & Specifications (Unit: mm)



Electrical Performance

Test Items	Condition	Spec
Operating Temp.range	-55°C ~ +155°C	
Short Time Over Load	2.5 Times of rated voltage for 5sec.	± 1%
Load Life	70 °C on-off cycle 1,000hrs.	± 5%
Moisture-Proof Load Life	40 °C 95% RH on-off cycle 1,000hrs	± 5%
Soldering After Resistance	350 °C for 3sec.	± 0.5%
Temperature Cycle	-30 °C~85 °C 5cycles	± 2%
Resistance Temperature Coefficient	1Ω~22ΚΩ	± 300PPM / °C
	22ΚΩ~510ΚΩ	± 450PPM / °C
	510KΩ~1MΩ	± 800PPM / °C
	1ΜΩ~2.2ΜΩ	± 1000PPM / °C
	2.2ΜΩ~5.1ΜΩ	± 1400PPM / °C





How to Order

0.125W 100R CF TB 0 € 6

• Part Number: CF, CFS

2 Rated Power (W)

3 Resistance Value (Ω)

Code	Resistance Value
1R	1Ω
10R	10Ω
100R	100Ω
10K	10ΚΩ
10M	10ΜΩ
22M	22ΜΩ

• Resistance Tolerance (%)

Code	Resistance Tolerance
G	±2%
J	±5%

6 Package

Code	Package
TB	Taping Box

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