


**Product Family:** [100 Watt RF Chip Power Resistor](#)

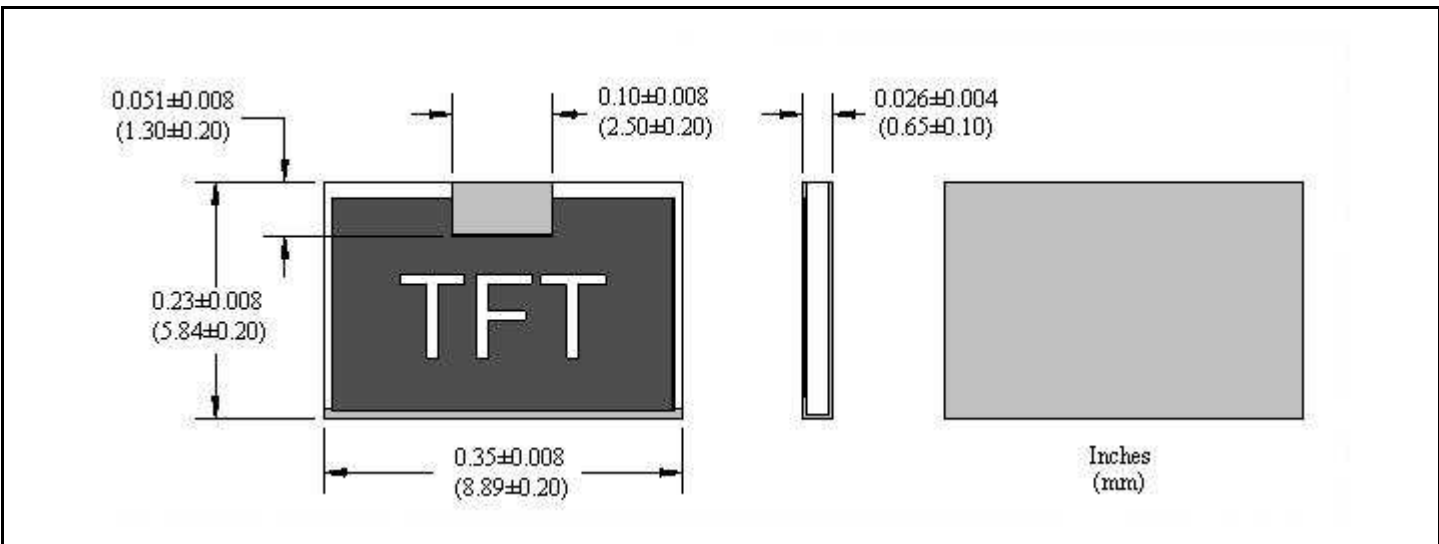
**Part Number Series:** [CFN2335 Series](#)

	<p><b>Construction:</b></p> <ul style="list-style-type: none"> <li>Aluminum nitride substrate</li> <li>Nickel alloy thin-film resistive element</li> <li>Epoxy-resin overcoat</li> <li>Pre-tinned (Sn100, matte) terminations over Ni barrier is standard (RoHS compliant and Pb Free)</li> </ul>	<p><b>Features:</b></p> <ul style="list-style-type: none"> <li>TCR = <math>\pm 25</math> ppm/<math>^{\circ}</math>C</li> <li>Extended frequency performance</li> <li>High volume production suitable for commercial and special applications</li> <li>Competitive pricing</li> </ul>
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**Description:**

These aluminum nitride chip power resistors are designed to tolerate high current and establish a low thermal resistance interface with the circuit board. A lower thermal resistance more efficiently sinks heat to the board providing a larger effective area for heat dissipation which enables the chip to sustain higher power levels. These power resistors are primarily used in microwave power amplifiers, isolators for base stations and power attenuators. Low temperature coefficients, high power handling, long term stability and extended frequency performance make these chip resistors ideal for use in telecommunication applications.

**Product Dimensions:**



**Part Numbering:** CFN2335E50R0JS\*

Product Designator	Ceramic Type	English Size (Metric Size)	Temp. Coefficient of Resistance (TCR)	Resistance Value	Tolerance	Custom Code
CF	N = Aluminum Nitride	2335 (5889)	E = $\pm 25$ ppc/ $^{\circ}$ C	50R0 = 50.0 $\Omega$	J = $\pm 5\%$	S = Standard

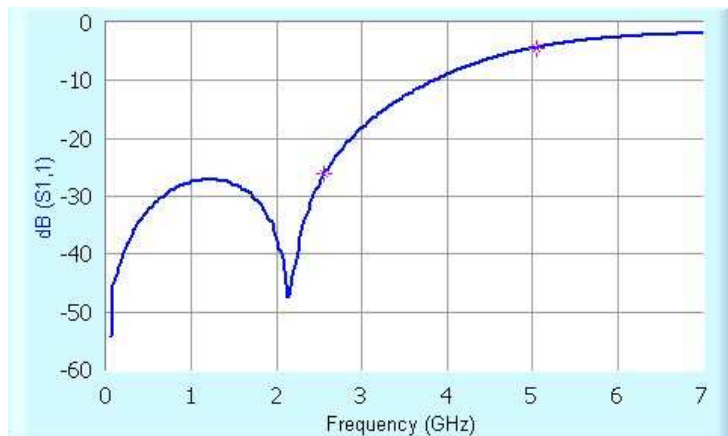
\*Note: T&R package quantity (-T##) will be appended by us to the end of the part number. Refer to the following page for standard package sizes.

## Electrical Specifications:

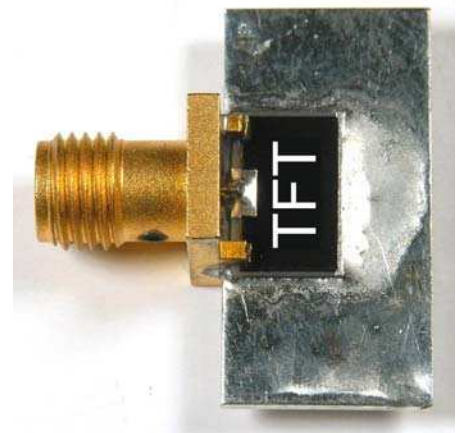
Type	CFN2335E50R0JS*
English Size	2335
Metric Size	5889
Power	100 Watts
Rated Voltage	$\sqrt{\text{Power} \times \text{Resistance}}$ (70.7 volts)
Frequency Performance	Return Loss < 21dB to 2.5GHz Max VSWR = 1.20 to 2.5GHz
Resistance	50Ω
Tolerance% (code)	±5.0% (J)
TCR ppm/°C (code)	±25ppm/°C (E)
Operating Temperature	-55°C ~ +150°C
Packaging	1,000 or 5,000 pcs/reel

Please consult the factory for any desired variations to the above specifications

## Frequency Performance Plot (typical):



## Measurement Fixture:



## Power Derating Curve:

