

SMD Antenna Specification Document

**CrossAir™ SMD Antenna Series
Complies with RoHS standards**

PN: CA-C03

2.4 GHz ISM Band Antenna

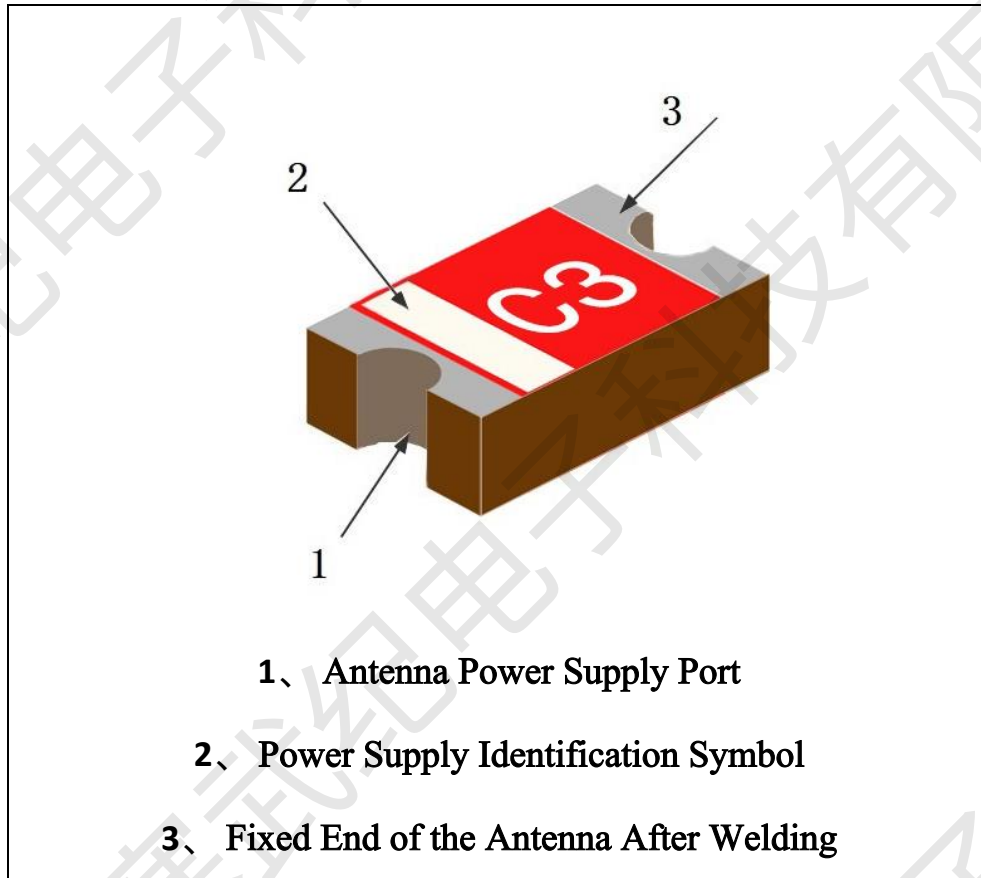
Characteristic

1. A compact SMD surface-mount antenna with dimensions of only $5.5 \times 2.0 \times 1.0 \text{ mm}^3$.
2. Low energy loss and high antenna efficiency.
3. It exhibits high stability under variations in temperature and humidity.

Apply

1. Antenna Applications in the 2.4 GHz ISM Band
2. Bluetooth, ZigBee, wireless applications, smart home applications, etc.
3. WIFI (2.4 GHz only)

structure



Size

Three views	Symbol	Size (mm)
	L	5.5 ± 0.2
	w	2.0 ± 0.1
	T	1.0 ± 0.1
	a	0.5 ± 0.1

Electrical Character

CA-C03	Specification
Working Frequency Range Working Frequency	$2450 \pm 50\text{MHz}$
Bandwidth	$>100\text{MHz}$
Impedance	$50\ \Omega$
Gain (dBi)	4.3 (peak)
Standing Wave Ratio (VSWR)	<2
Working Temperature	$-40^{\circ}\text{C} \sim +95^{\circ}\text{C}$
Power Capacity	3W

The operating frequency of the 2.4 GHz antenna must be calibrated using impedance matching components.

Antenna Pad and Trace Design

