

## Embedded Single Band Ceramic chip Antenna

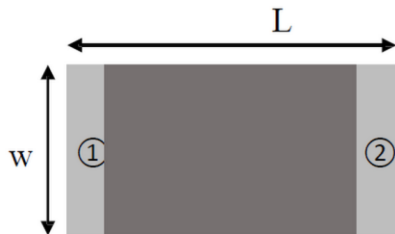
### ● Features

1. Surface Mounted Devices with a small dimension of 1.6 x 0.8 x 0.8mm meet future miniaturization trend.
2. Embedded and LTCC (low temperature co-fired ceramic) technology is able to integrate with system design as well as beautifying the housing of final product.
3. High stability and low tolerance.

### ● Applications

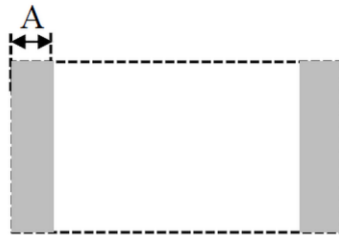
1. Bluetooth and Wireless LAN
2. ISM 2.4GHz in smart phone
3. PDA and other handheld devices.
4. ISM band 2.4GHz applications

### ● Dimensions (Unit: mm)



( Top View )

Number	Terminal Name
①	INPUT
②	NC



( Bottom View )



( Side View )

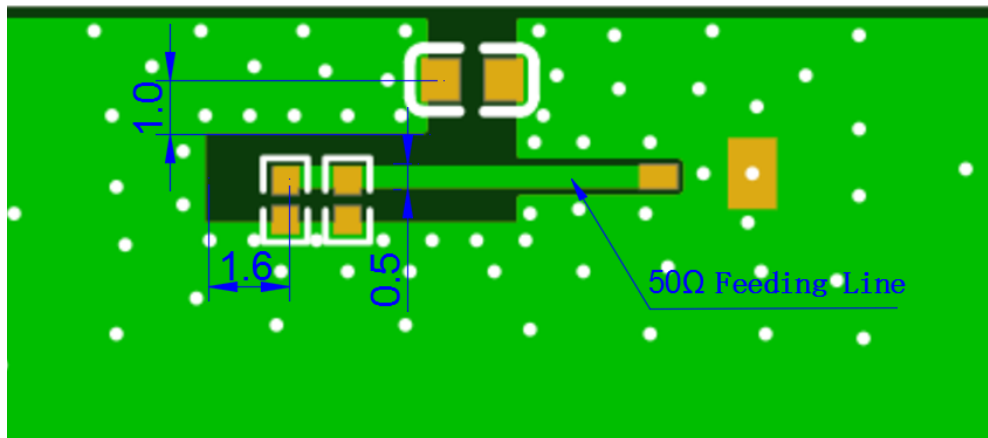
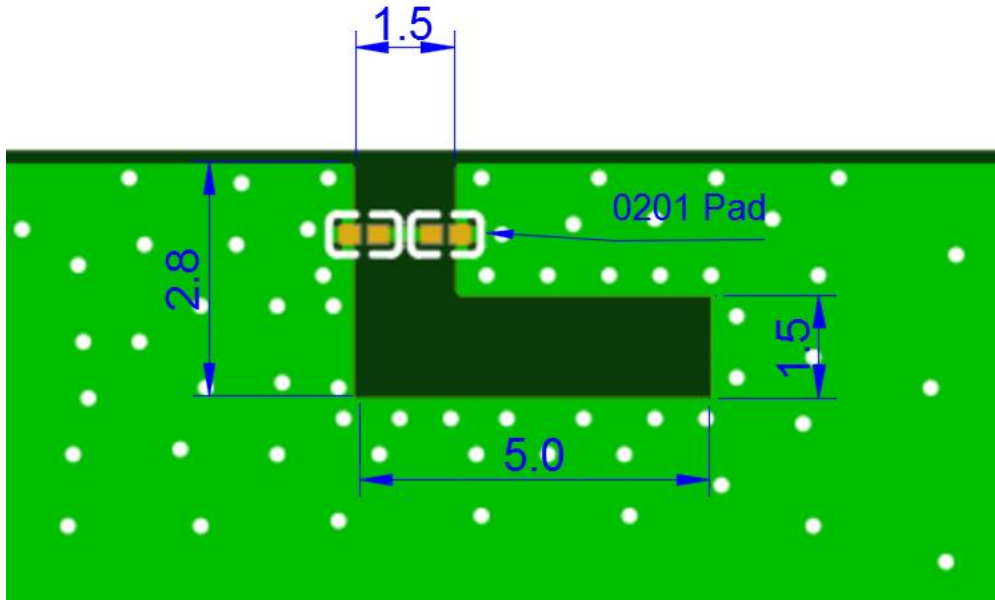
Symbols	L	W	T	A
Dimensions	1.60±0.20	0.80±0.20	0.80±0.10	0.30±0.10

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地址：深圳市宝安区西乡街道鹤州社区恒丰工业城B25栋二层

TEL: 0755-82790675, FAX: 0755-82809726 [www.surbaner.com.cn](http://www.surbaner.com.cn)

● Evaluation Board and Matching Circuits



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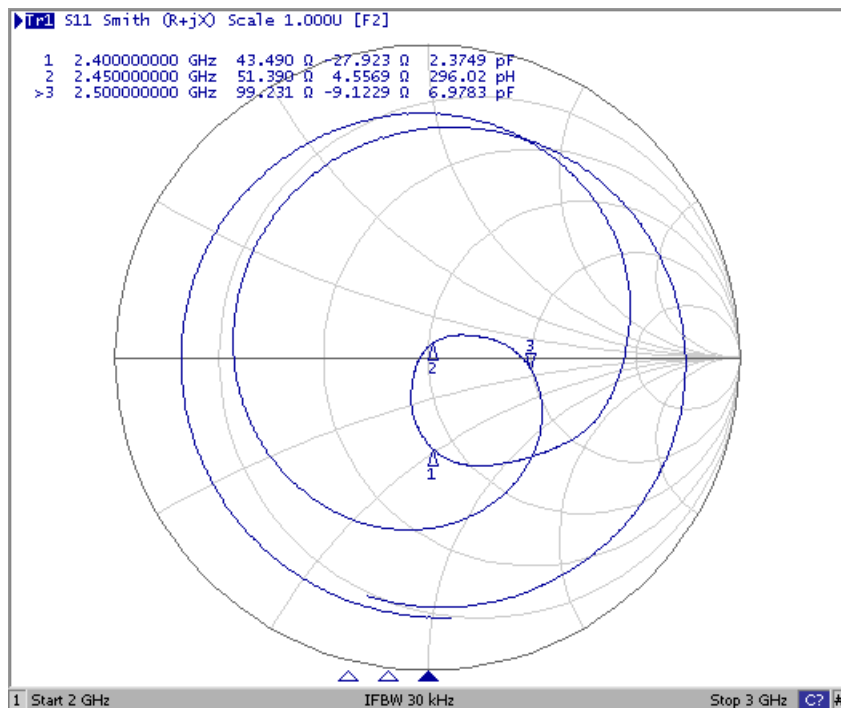
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● **Electrical Characteristics**

Item	Feature	Specification
1	Central frequency	2445MHz
2	Bandwidth	>100MHz
3	Peak gain	2.25dBi
4	VSWR	< 2
5	Polarization	Linear
6	Azimuth beamwidth	Omnidirectional
7	Impedance	50 Ω

NOTE: The specification is defined based on the test board dimension.

(1) Smith Chart

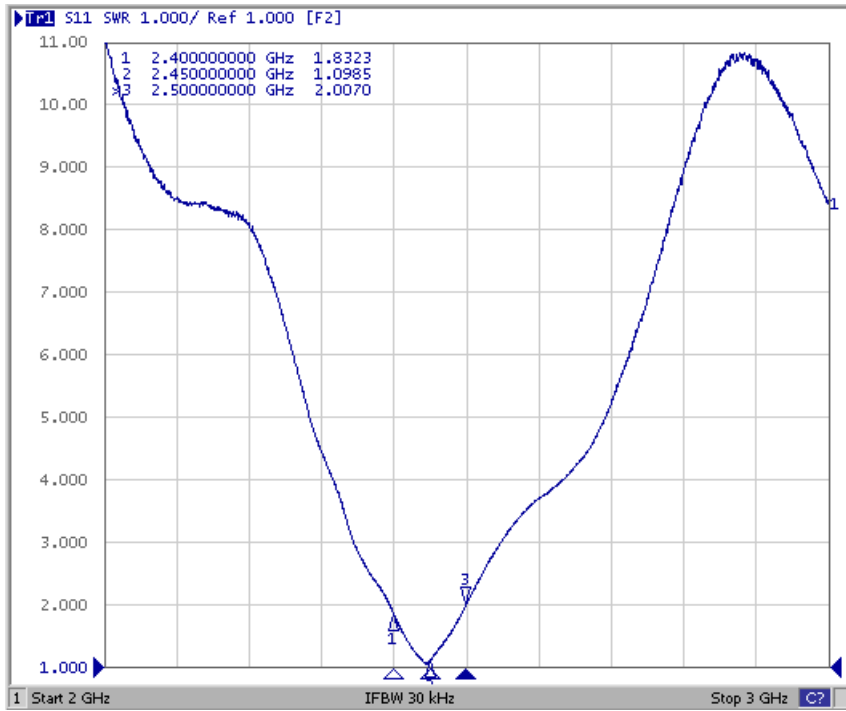


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### (2) S-Parameter



### (3) Radiation Pattern



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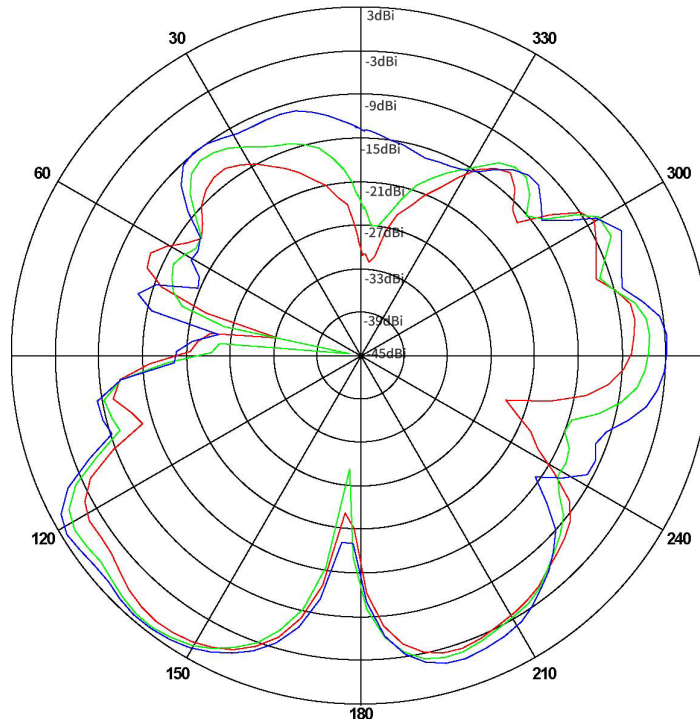
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Horizontal: 2400 MHz 2450 MHz 2500 MHz

Power (dBm)

Max: 3dBi Min: -45dBi Scale: 6/div



Frequency	2400MHz	2450MHz	2500MHz
Peak gain	1.3dBi	2.25dBi	2.2dBi
Efficiency	62%	55%	52%

● Dependability Test

Test Temperature	25°C±3°C
Operating Temperature	-25°C~+85°C
Temperature	5~+40°C
Relative Humidity	20~70%HR

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