

Embedded Single Band Ceramic chip Antenna

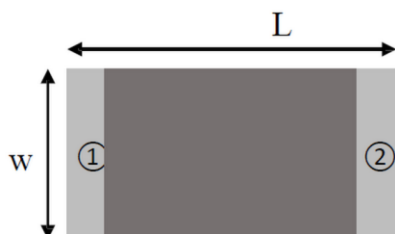
● Features

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 beatifying the housing of final product.
3. High stability and low tolerance.

● Applications

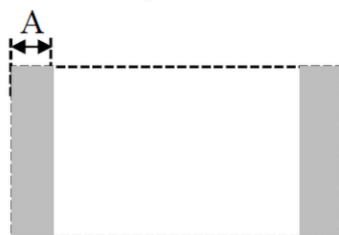
1. Bluetooth and Wireless LAN
2. ISM 2.4GHz in smart phone
3. PDA and other handheld devices.
4. ISM band 2.4GHz applications

● 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

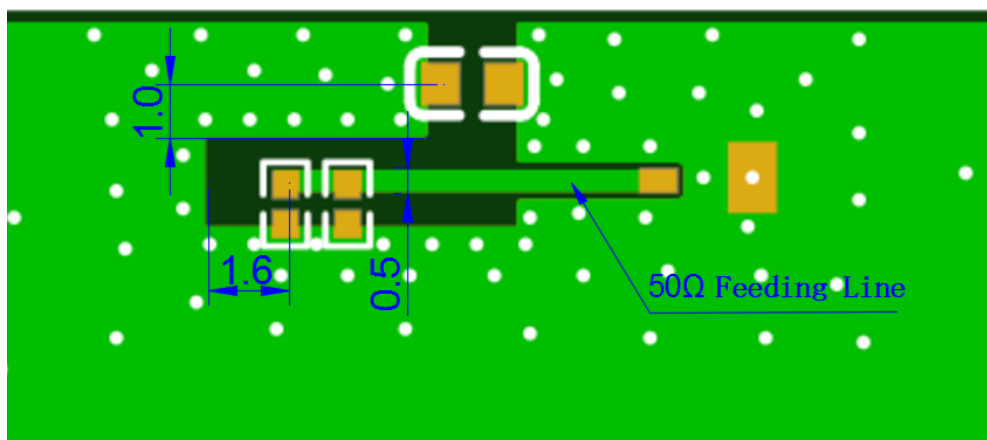
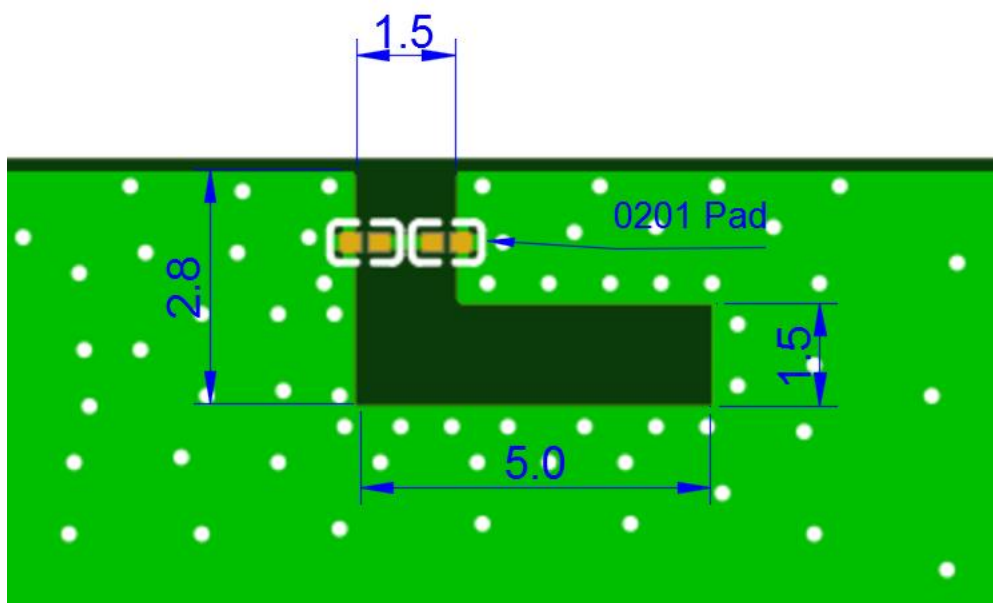
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● Evaluation Board and Matching Circuits



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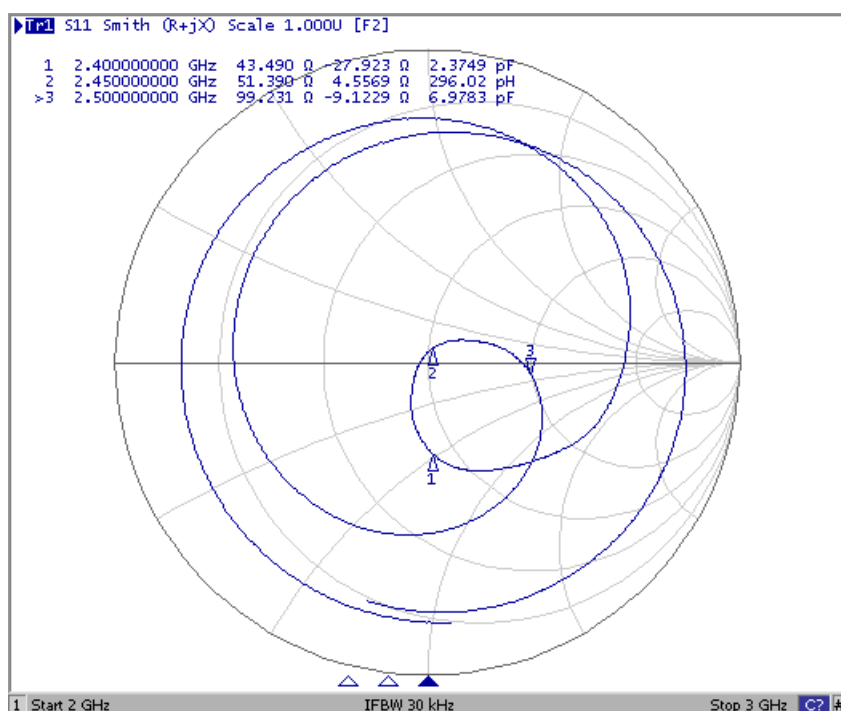
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● Electrical Characteristics

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



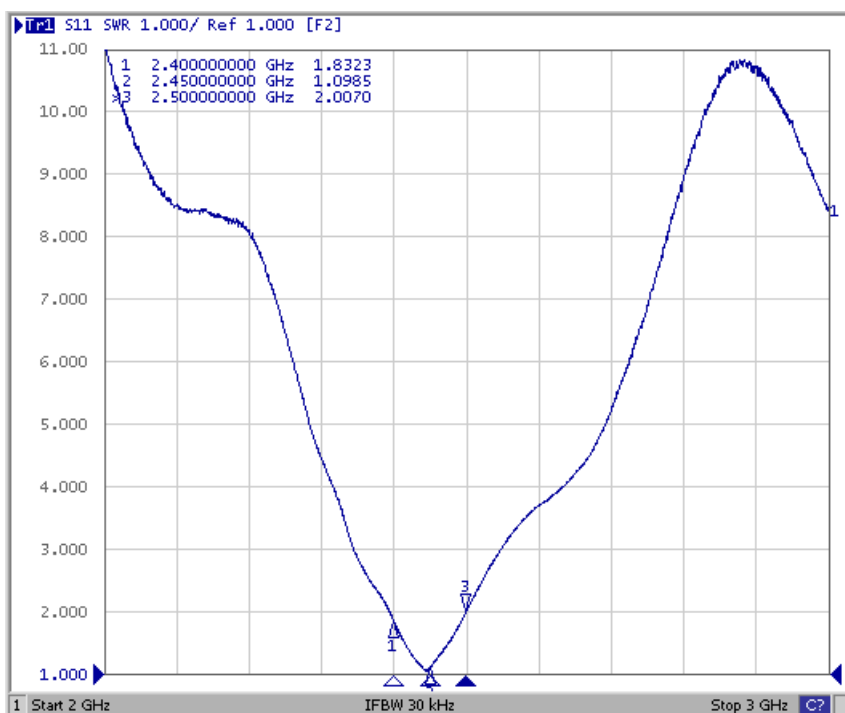
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(2) S-Parameter



(3) Radiation Pattern



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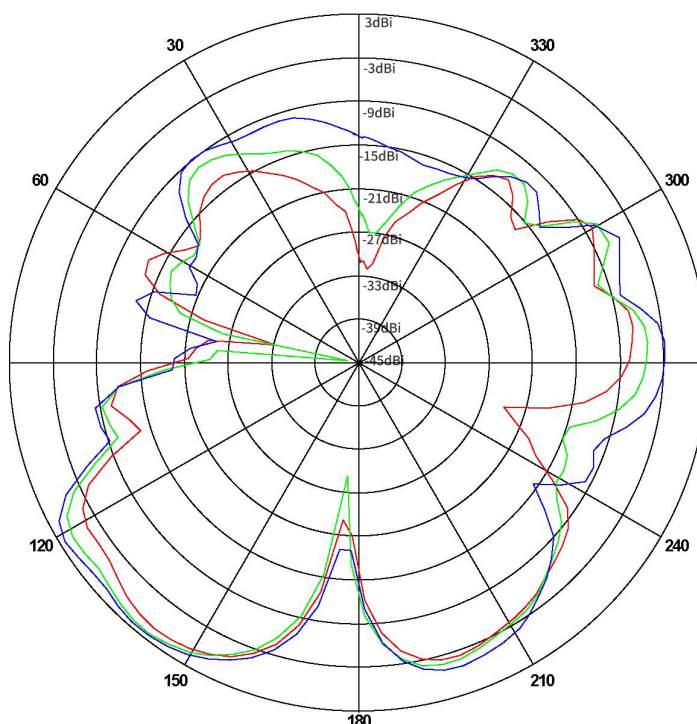
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Horizontal: 2400 MHz 2450 MHz 2500 MHz

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

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