

Chip Antenna report

Model:S1608ISMA02

Manufacturer: SBR Communication Technology

Floor 2, Building B25, Hengfeng Industrial City, Hezhou Community, xixiang street, Baoan District, Shenzhen

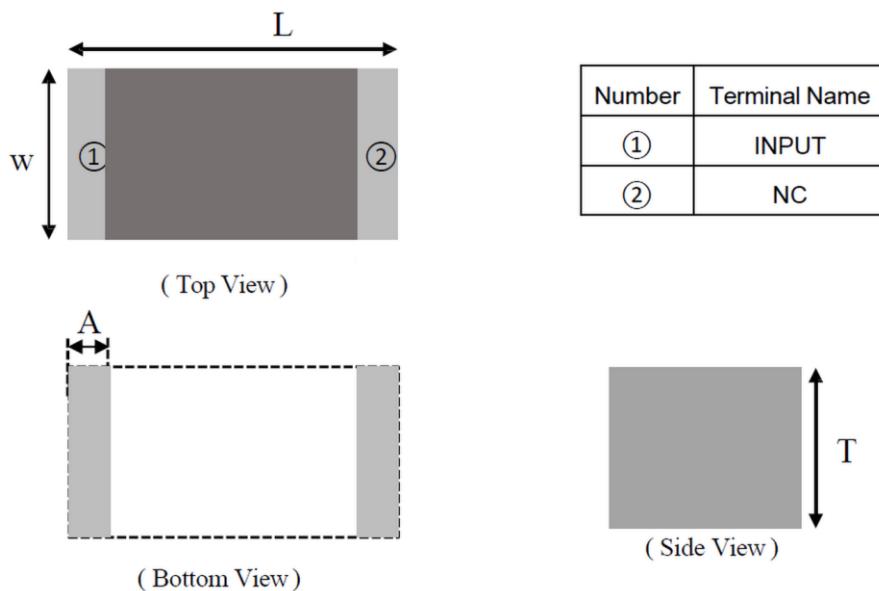
● Features

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)



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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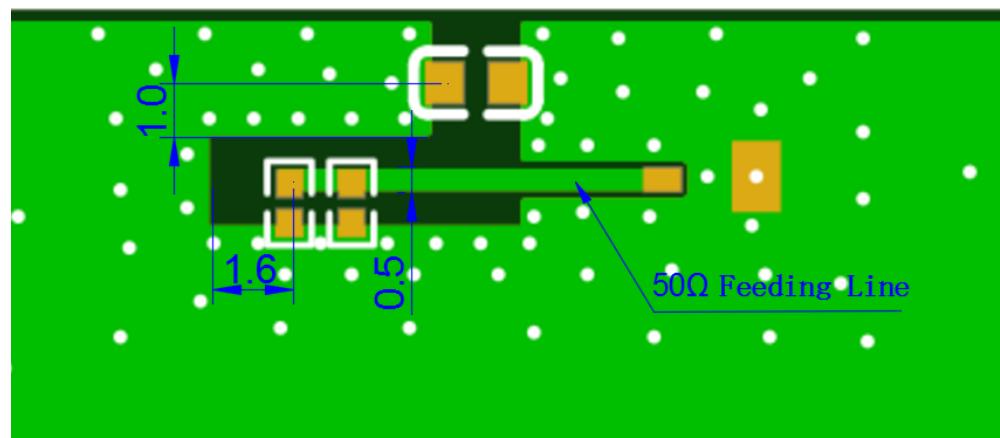
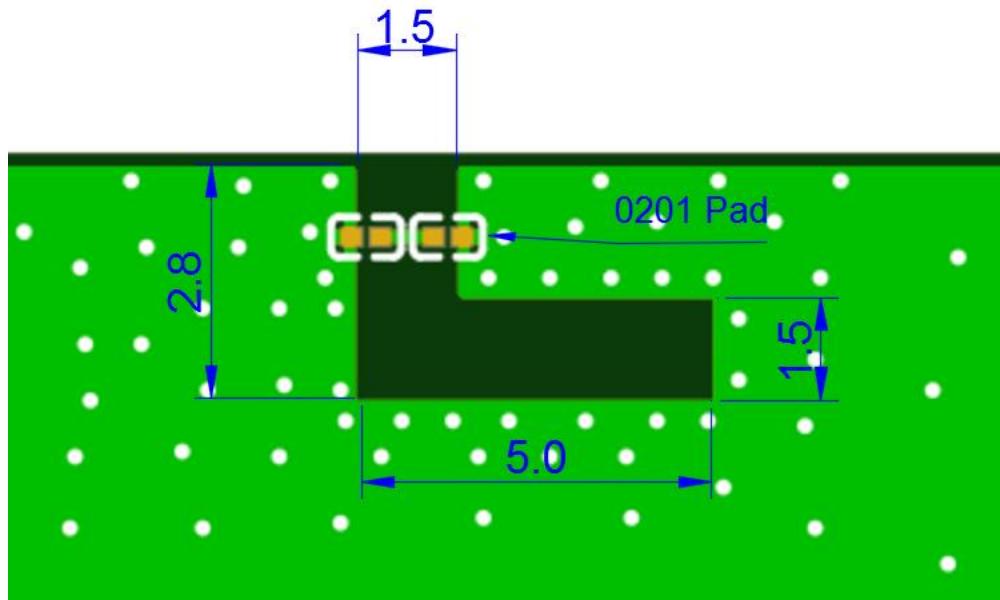
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- Evaluation Board and Matching Circuits



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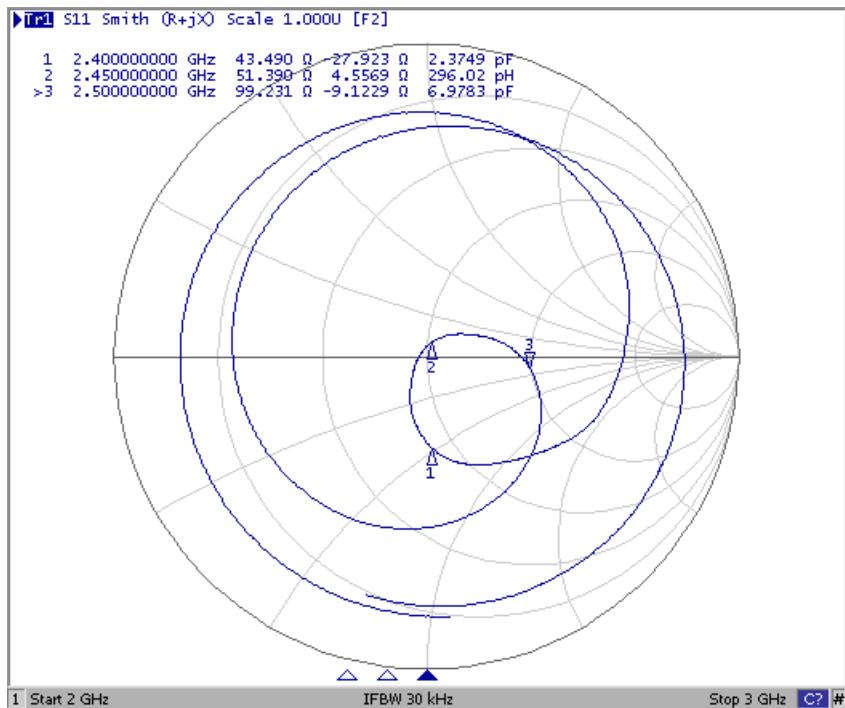
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● **Electrical Characteristics**

Item	Feature	Specification
1	Central frequency	2445MHz
2	Bandwidth	>100MHz
3	Peak gain	1.8dBi
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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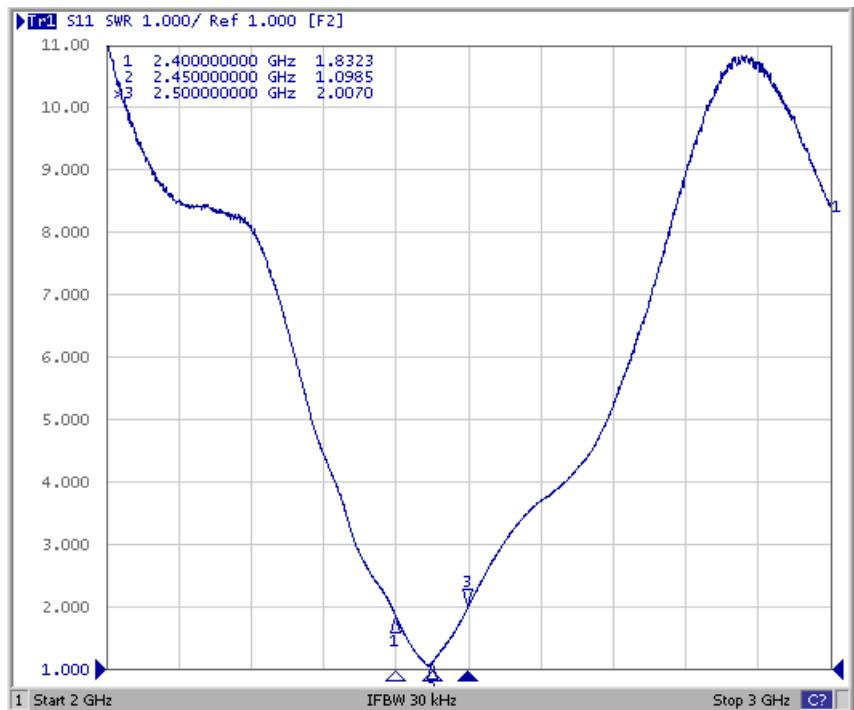
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(2) S-Parameter



(3) Radiation Pattern



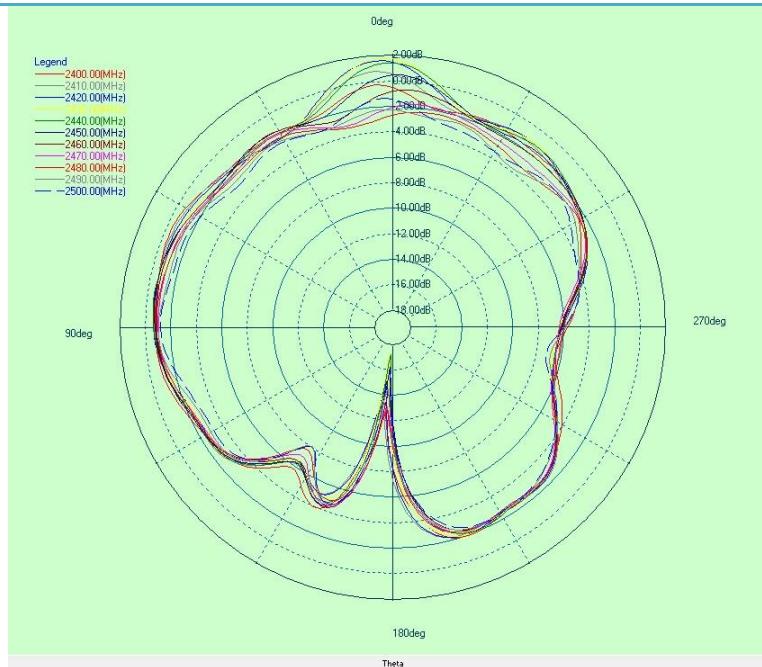
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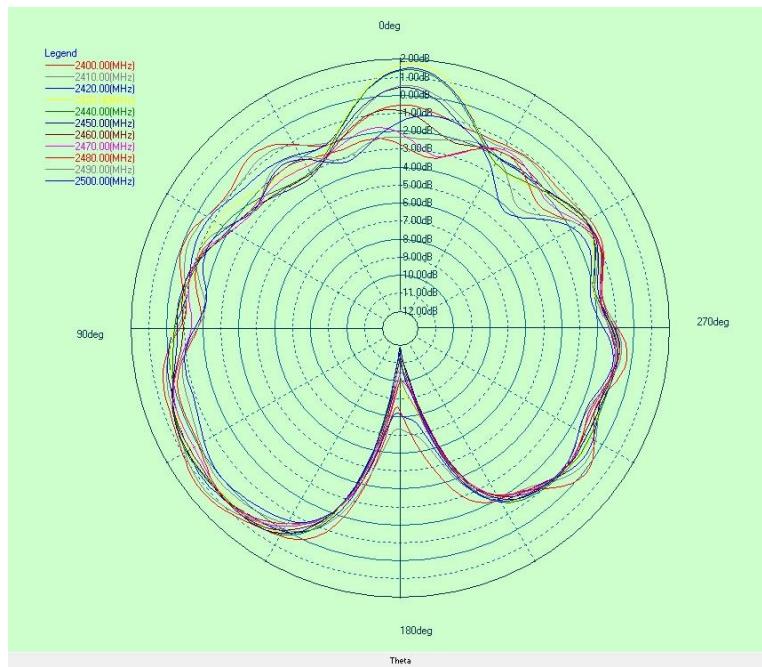
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Y-Z Plane

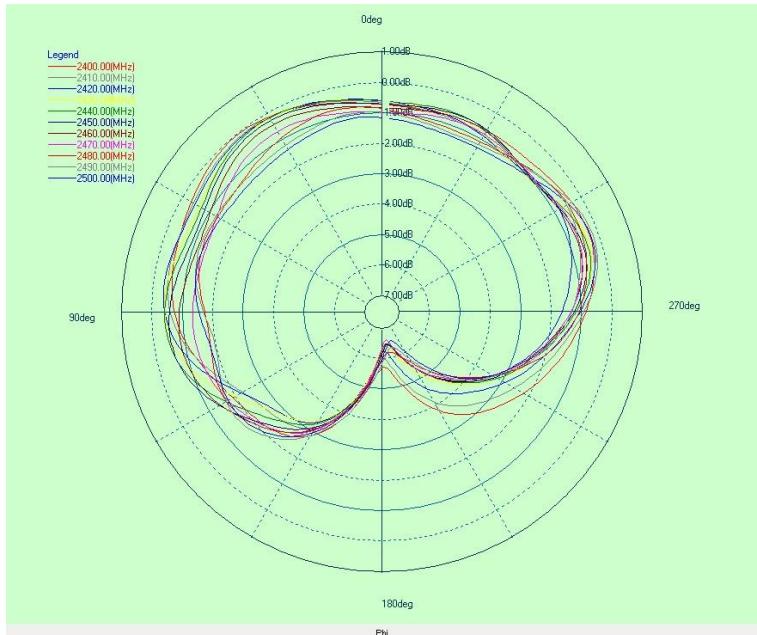


X-Z Plane

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X-Y Plane

Frequency	2400MHz	2430MHz	2490MHz
Avg. gain	1.20	0.90	0.35
Peak gain	1.6	1.8	1.4
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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