

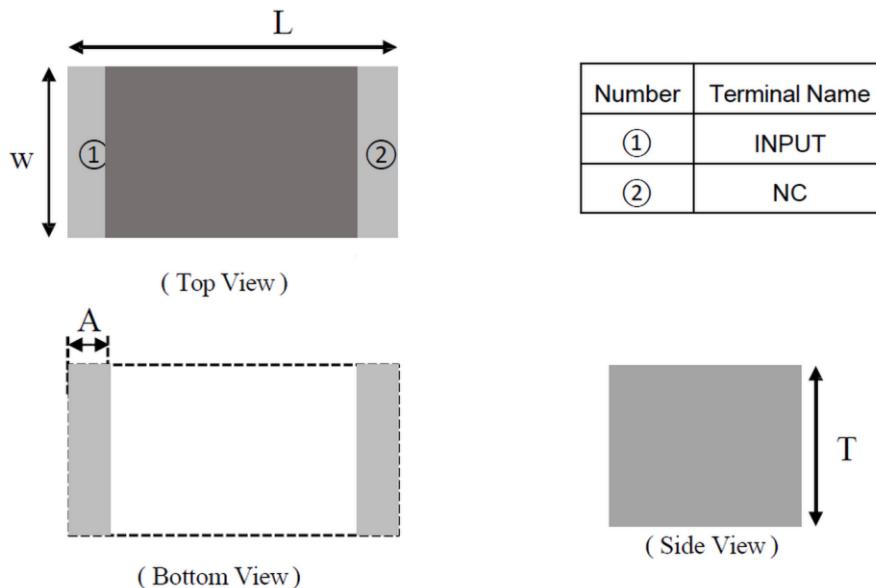
● Features

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

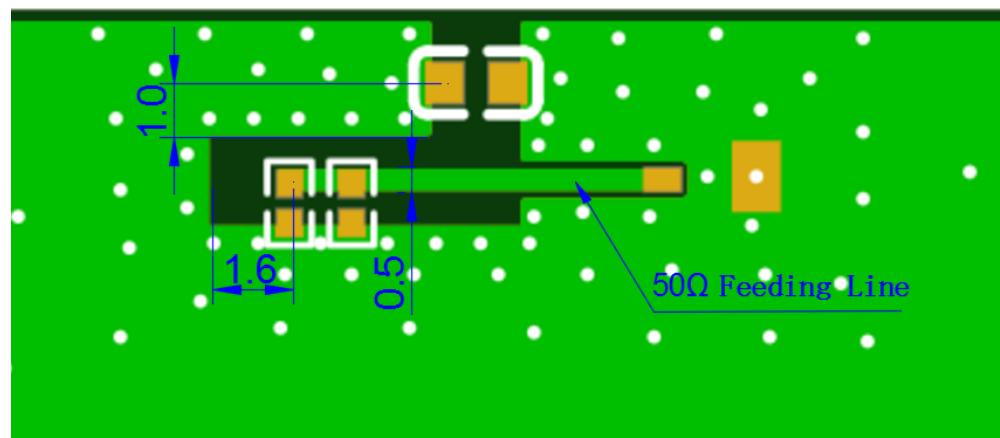
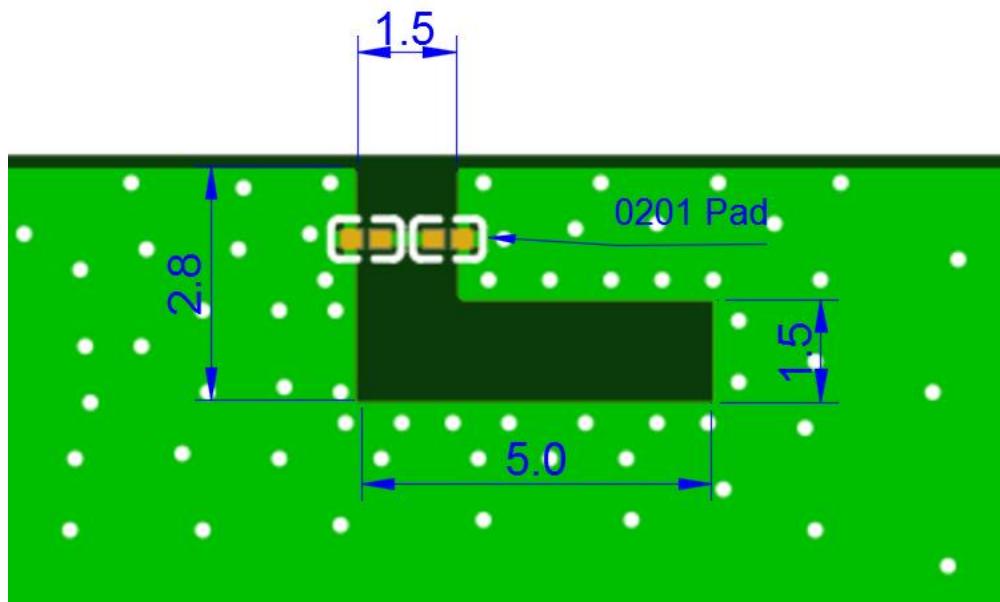
1. Bluetooth and Wireless LAN
2. ISM 2.4GHz in smart phone
3. PDA and other handheld devices.
4. ISM band 2.4GHz applications

● 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

● Evaluation Board and Matching Circuits

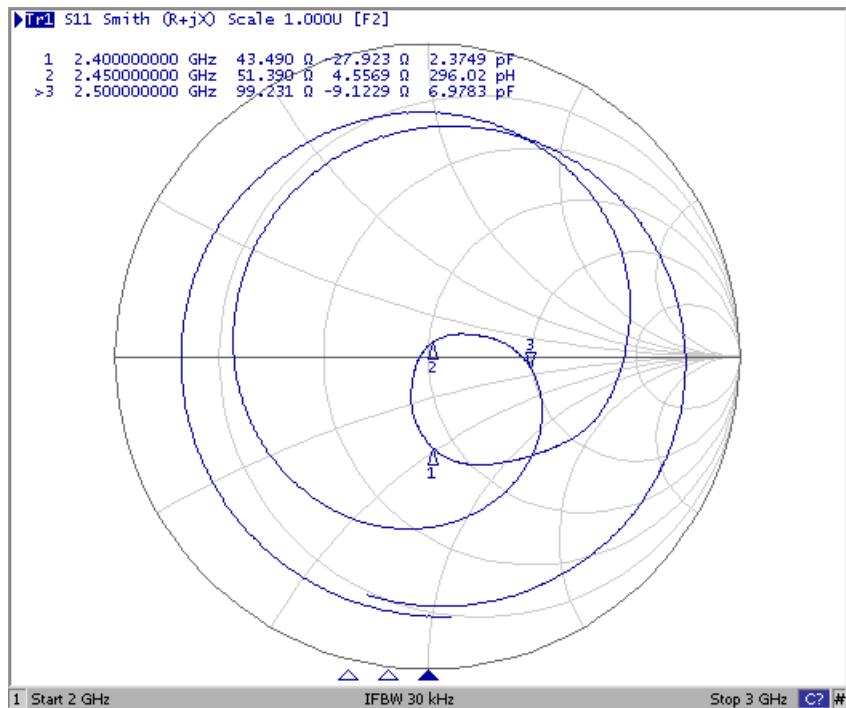


● Electrical Characteristics

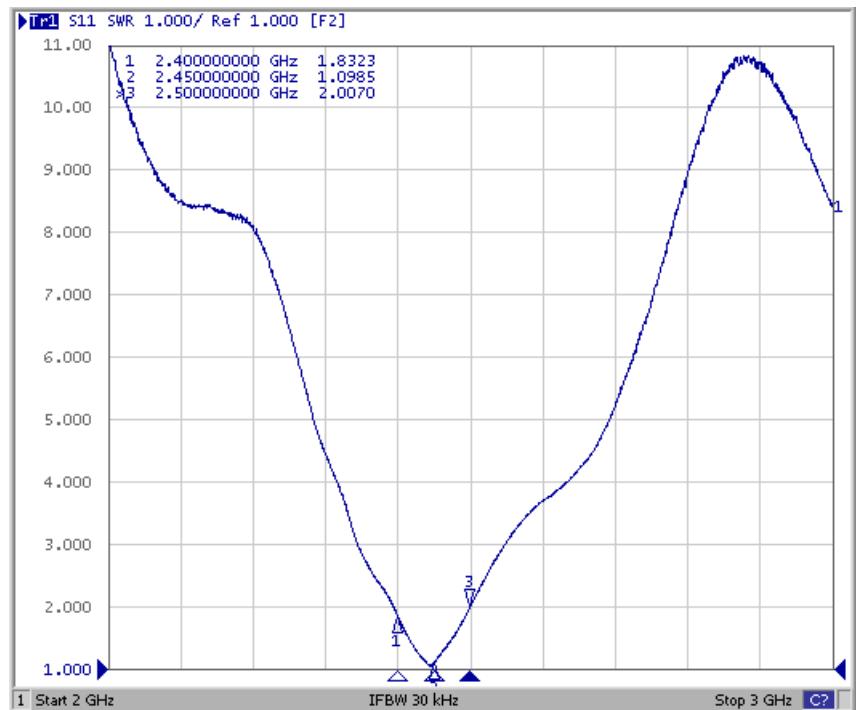
Item	Feature	Specification
1	Central frequency	2445MHz
2	Bandwidth	>100MHz
3	Peak gain	2.6dBi
4	VSWR	<2
5	Polarization	Linear
6	Azimuth beamwidth	Omnidirectional
7	Impedance	50 Ω

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

(1) Smith Chart



(2) S-Parameter

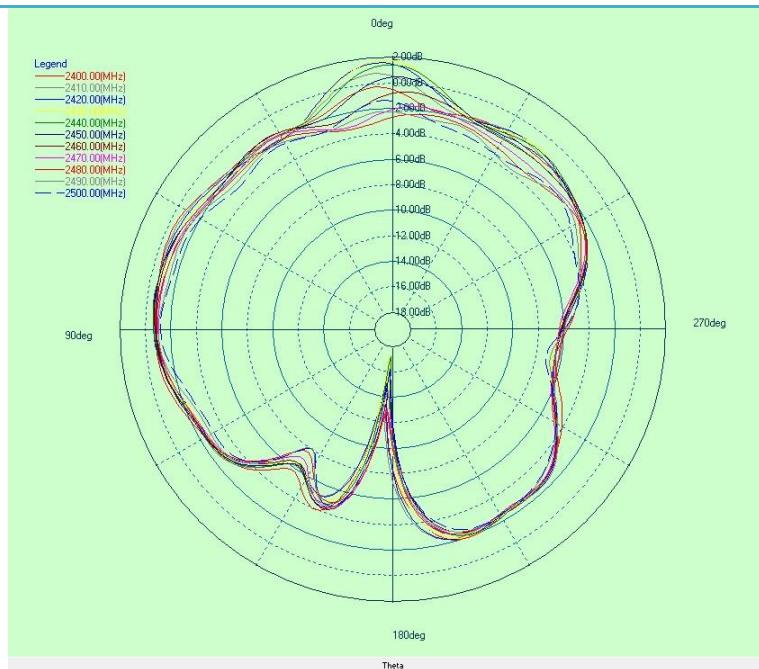


(3) Radiation Pattern

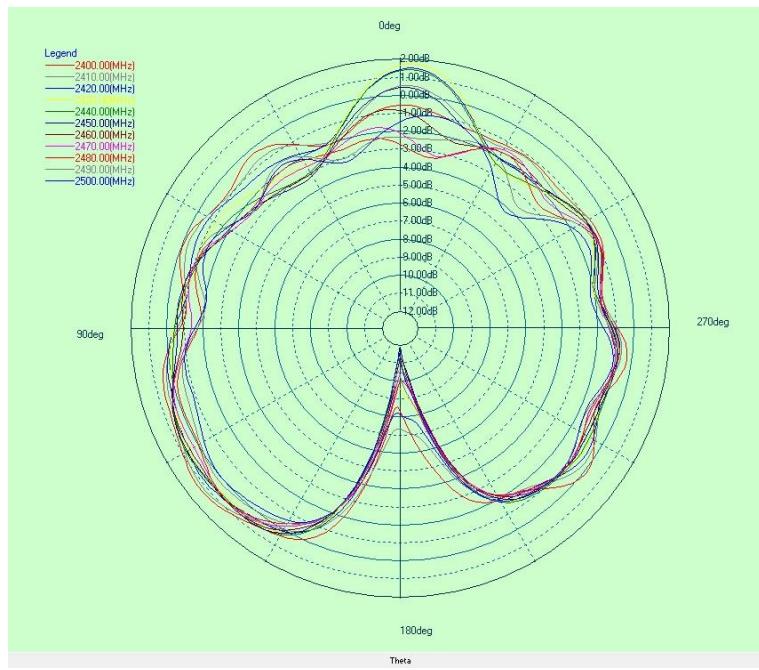


P/N: S1608ISMA02

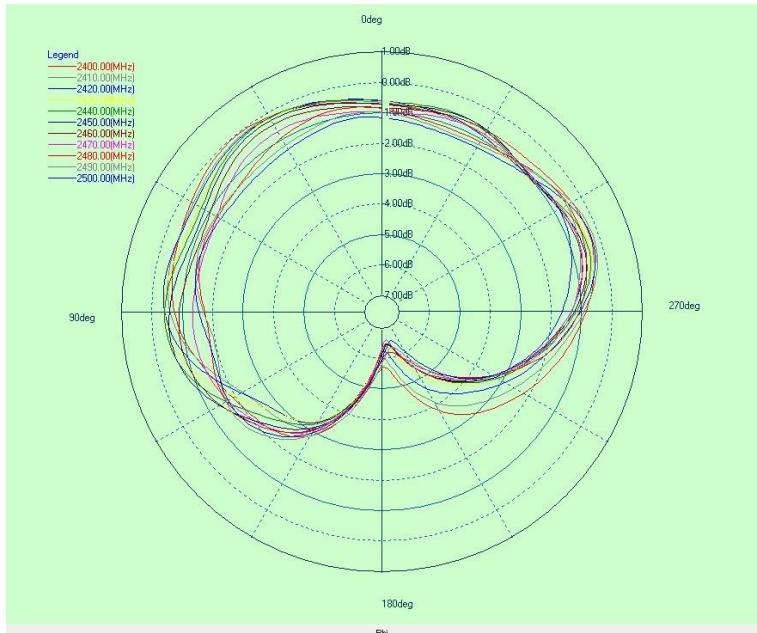
REV:A0



Y-Z Plane



X-Z Plane



X-Y Plane

Frequency	2400MHz	2450MHz	2490MHz
Avg. gain	1.20	0.90	0.35
Peak gain	2.6	2.6	2.4
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