

## P/N: S03216ISMA04

REV:A0

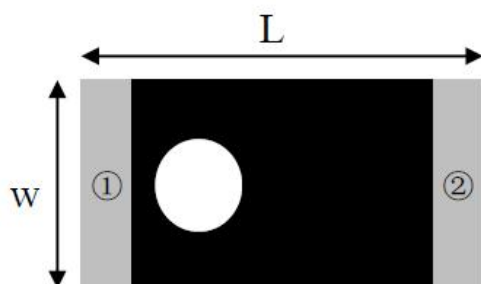
### ● Features

1. Surface Mounted Devices with a small dimension of 3.2 x 1.6 x 0.5mm 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

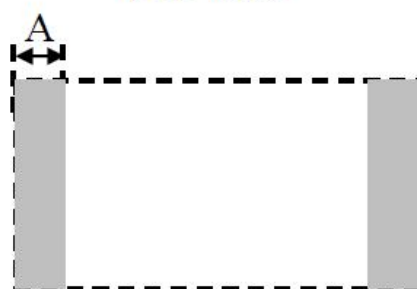
1. Bluetooth and Wireless LAN
2. ISM 2.4GHz in smart phone
3. PDA and other handheld devices.
4. ISM band 2.4GHz applications

### ● Dimensions (Unit: mm)



( Top View )

Number	Terminal Name
①	INPUT
②	NC



( Bottom View )



( Side View )

Symbols	L	W	T	A
Dimensions	3.20±0.20	1.60±0.20	0.50±0.10	0.40±0.10

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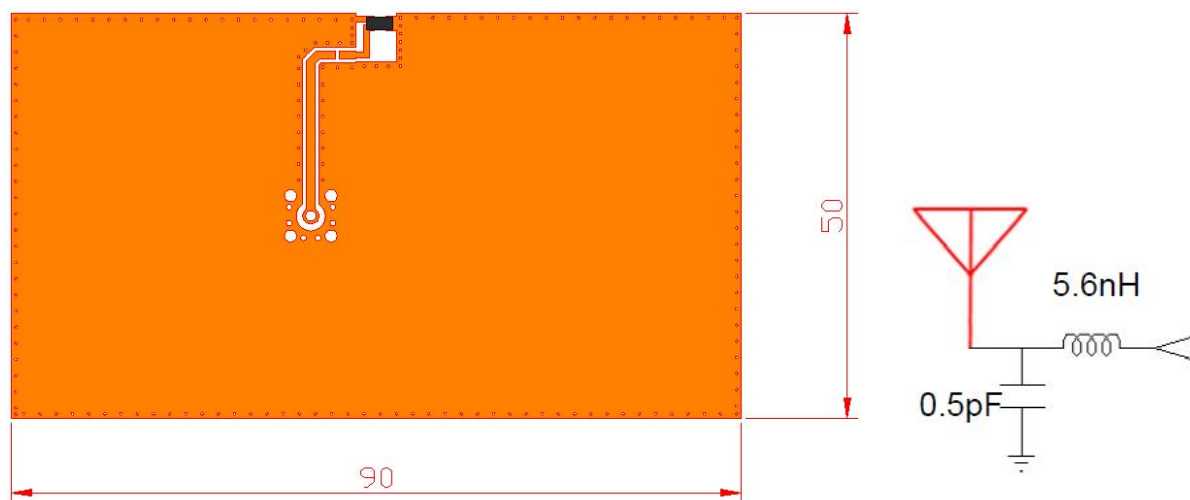
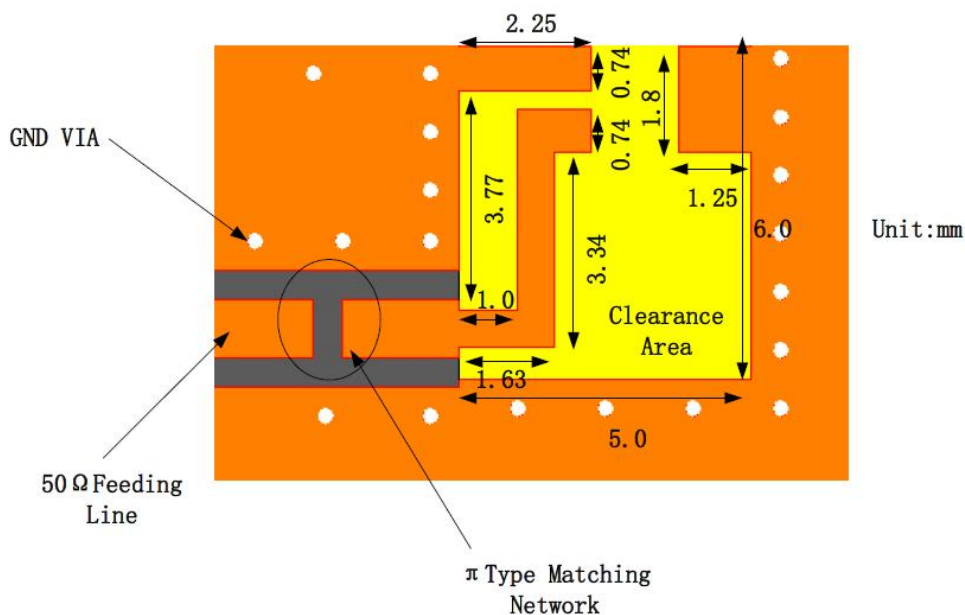
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## ● Evaluation Board and Matching Circuits



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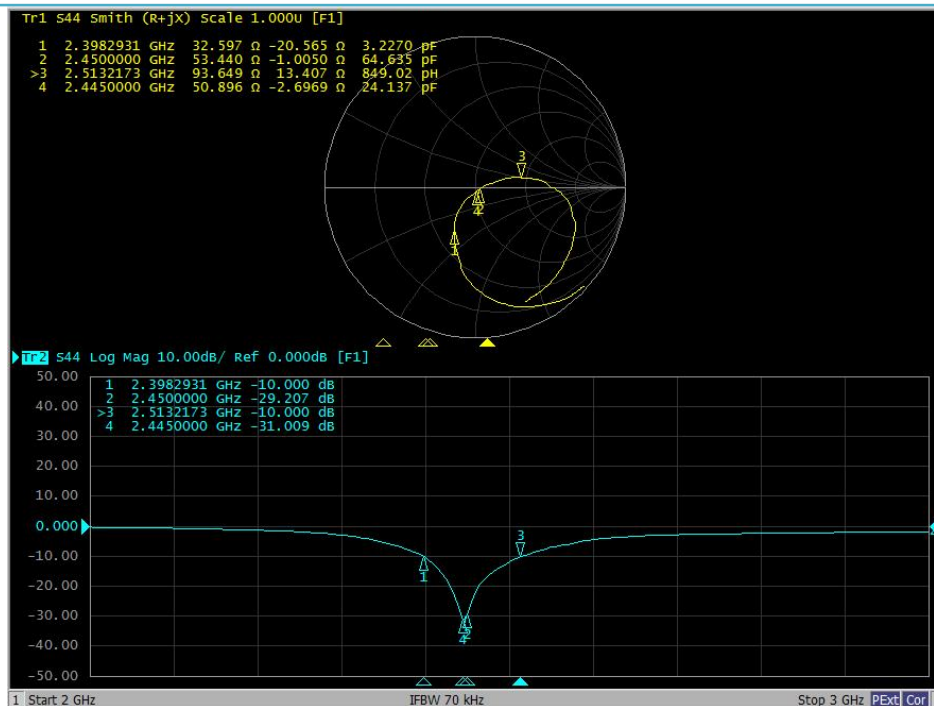
● Electrical Characteristics

Item	Feature	Specification
1	Central frequency	2450MHz
2	Bandwidth	100MHz typ.
3	Peak gain	4.08dBi
4	VSWR	<2.0
5	Polarization	Linear
6	Azimuth beamwidth	Omnidirectional
7	Impedance	50 Ω
NOTE: The specification is defined based on the test board dimension.		

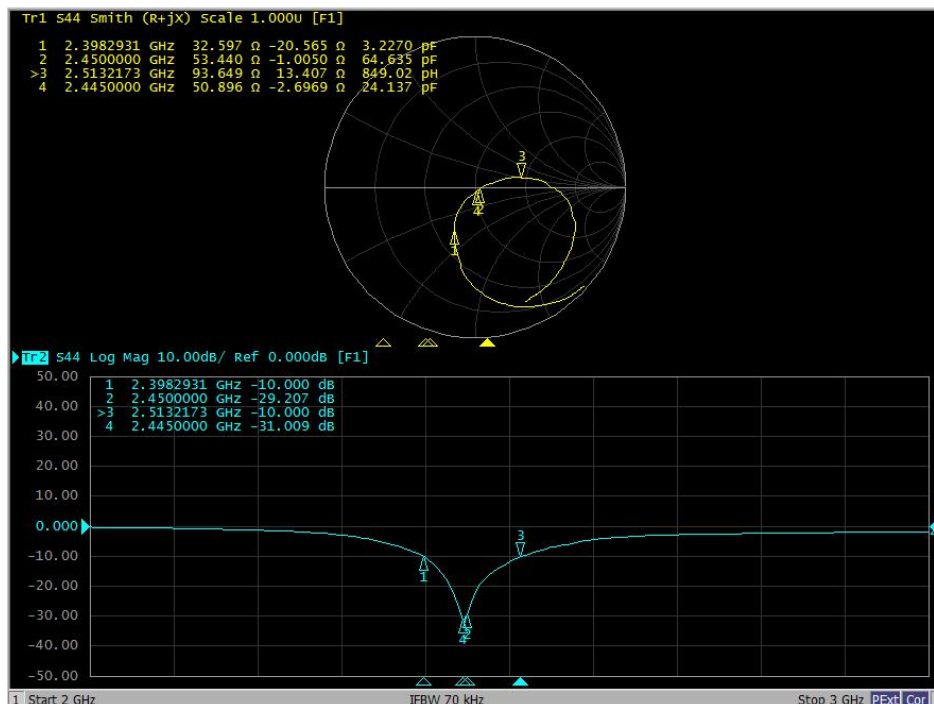
(1) Smith Chart

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## (2) S-Parameter



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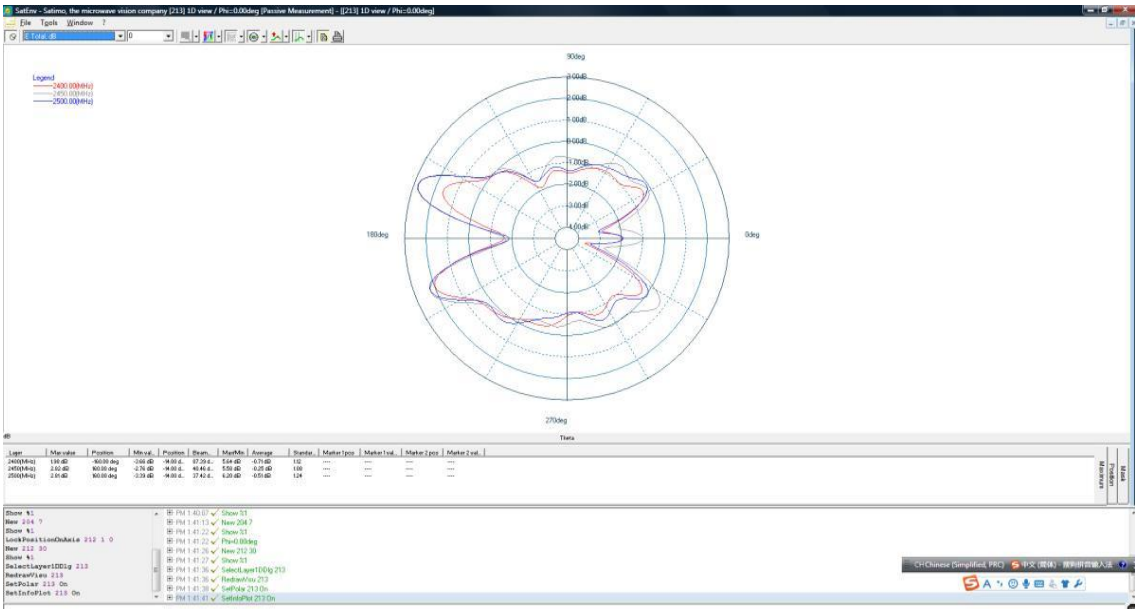
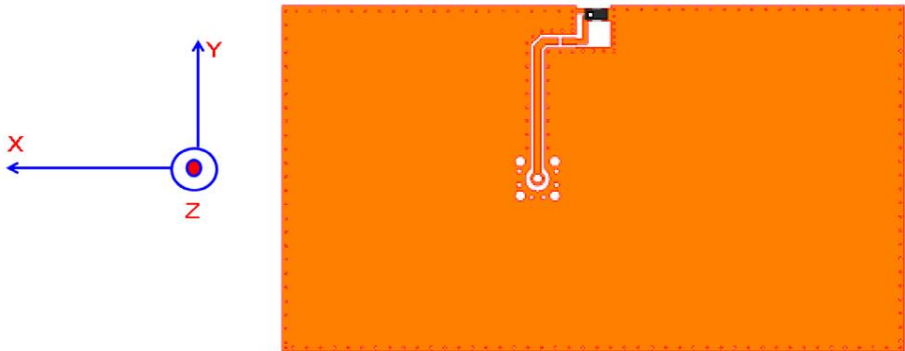
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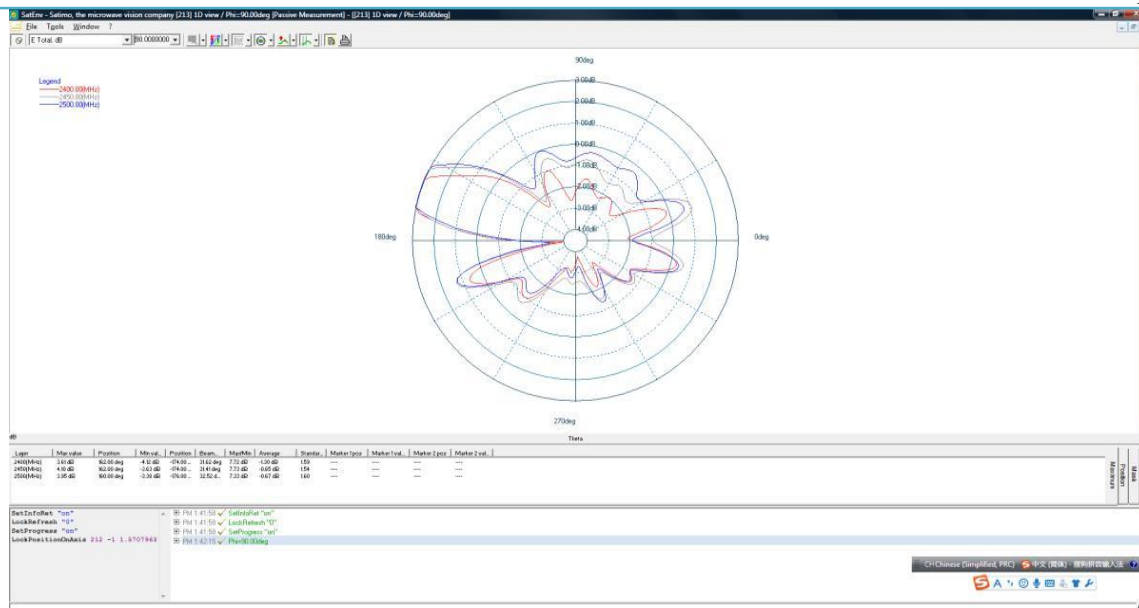
(3) Radiation Pattern



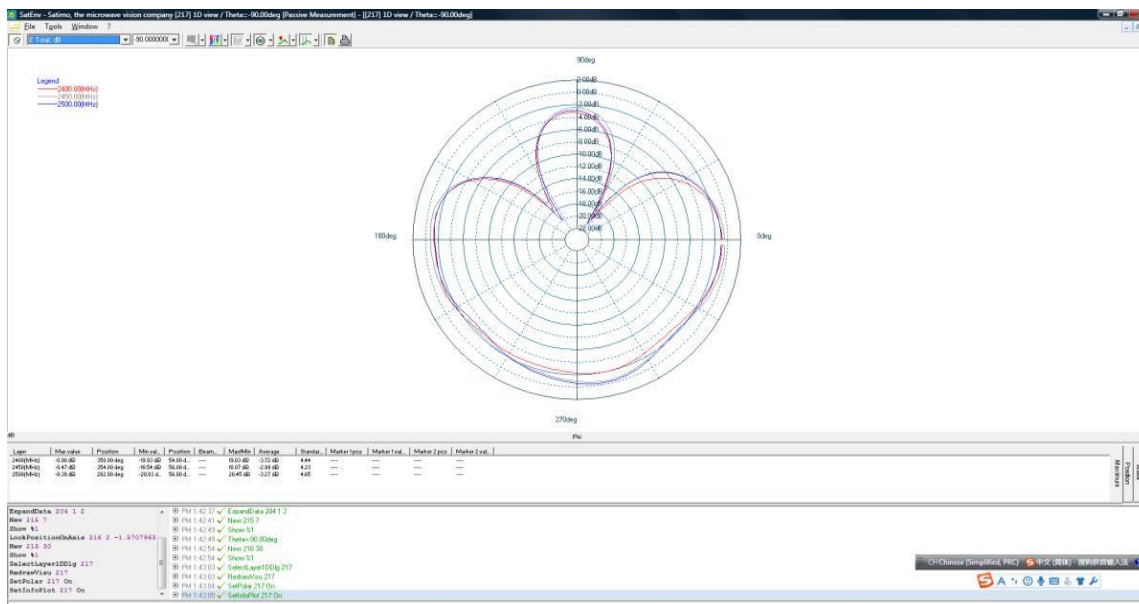
Y-Z Plane

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X-Z Plane



X-Y Plane

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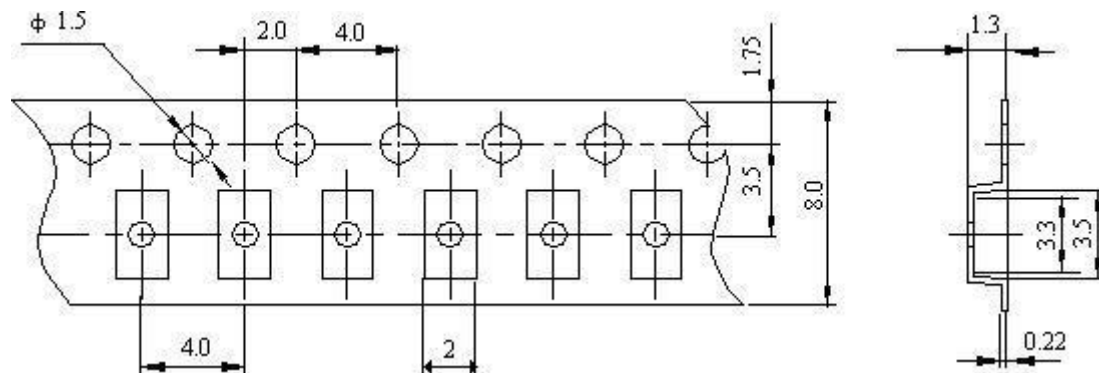
Frequency	2400MHz	2450MHz	2500MHz
Avg. gain	-1.91	-1.30	-1.48
Peak gain	1.76	4.08	2.53
Efficiency	72.1%	78.2%	71.8%

### ● Dependability Test

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

### ● Packaging and Dimensions (3216)

Plastic Tape



Remarks for Package

Reserve a length of 150~200mm for the trailer of the carrier and 250~300 mm for the leader of the carrier and further 250mm of cover tape at the leading part of the carrier.

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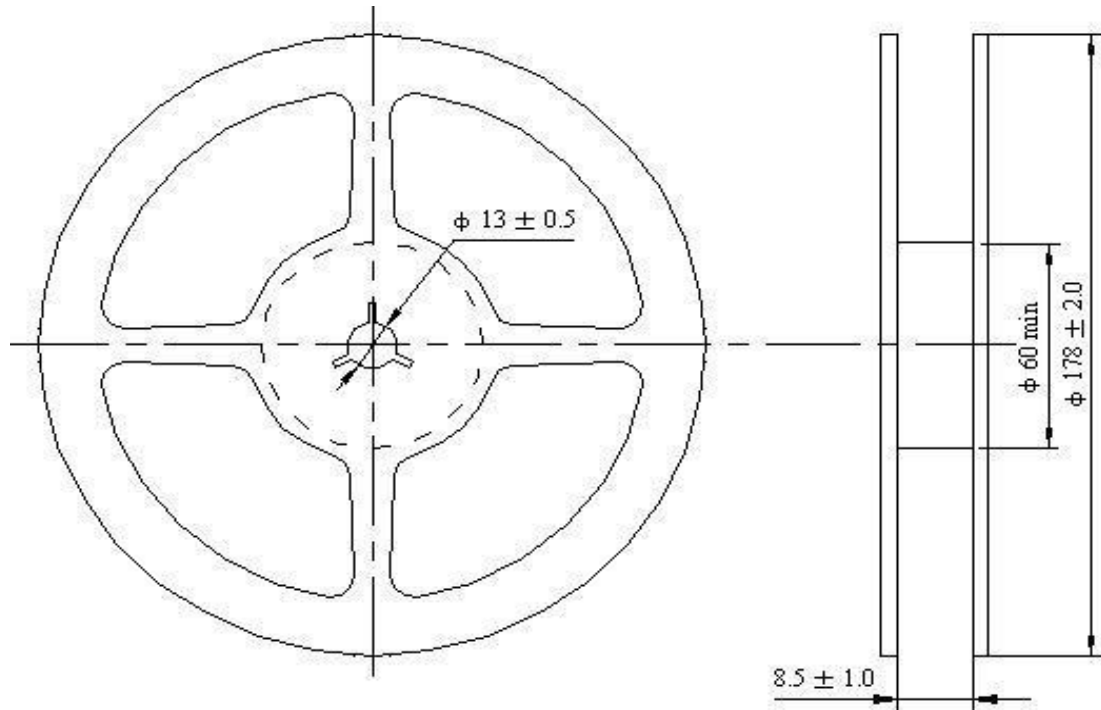
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Reel (3000 pcs/Reel)



#### Storage Period

Product should be used within six months of receipt.

MSL 1 / Storage Temperature Range : <30 degree C, Humidity : <85%RH