

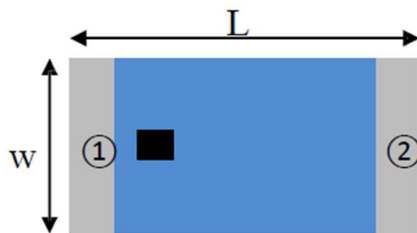
● Features

1. Surface Mounted Devices with a small dimension of 3.2 x 1.6 x 0.6mm 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)



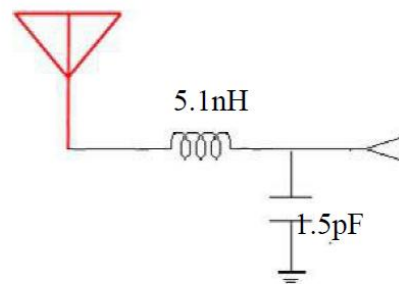
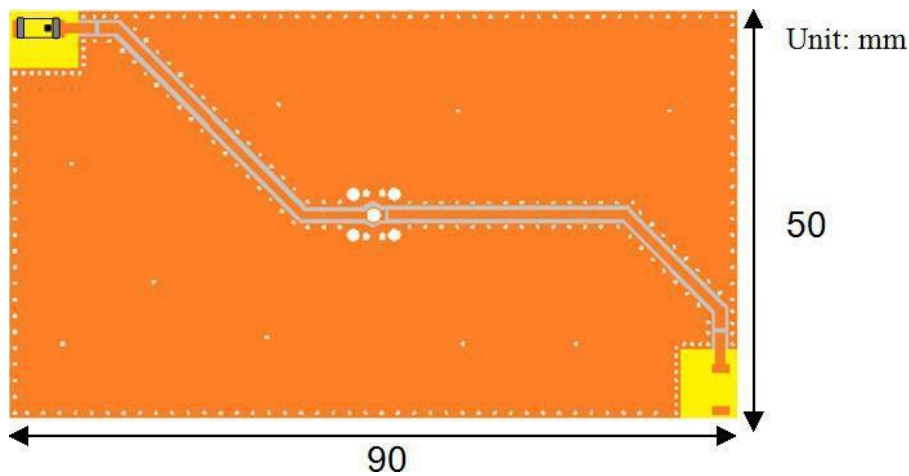
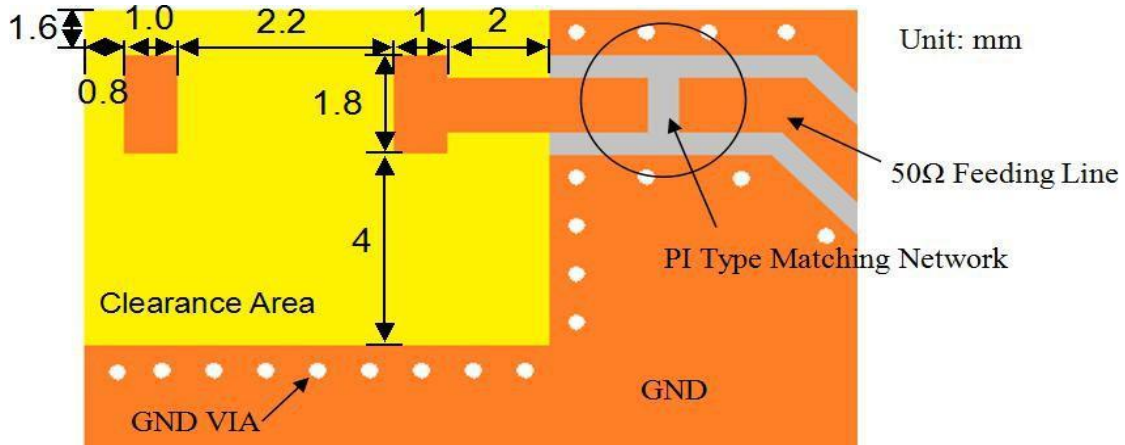
(Side View)

Symbols	L	W	T	A
Dimensions	3.20±0.20	1.60±0.20	0.60±0.10	0.40±0.10

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● Evaluation Board and Matching Circuits

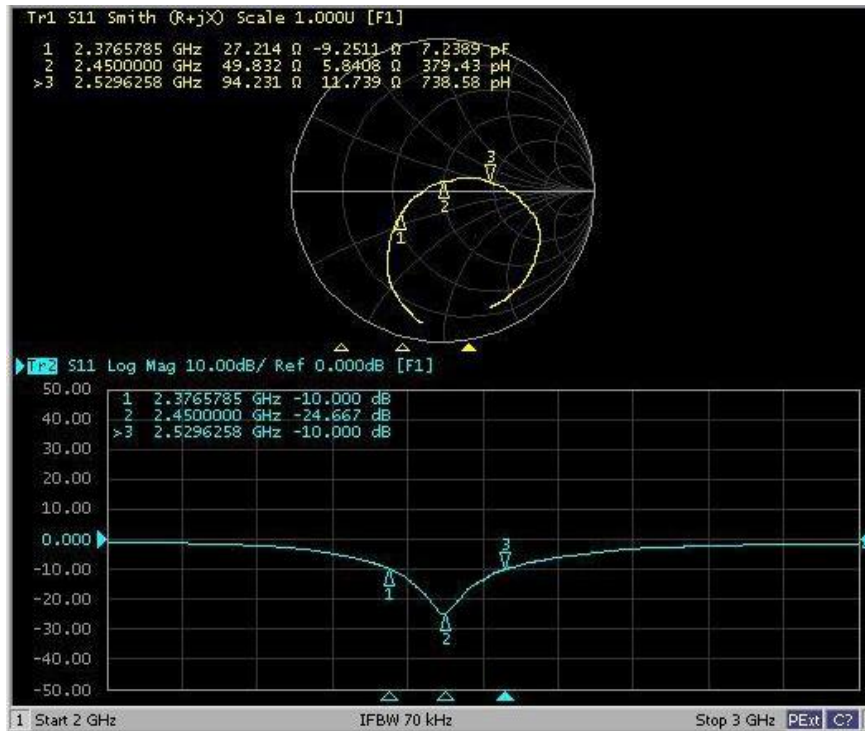


● Electrical Characteristics

Item	Feature	Specification
1	Central frequency	2450MHz
2	Bandwidth	100MHz typ.
3	Peak gain	4.75dBi
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



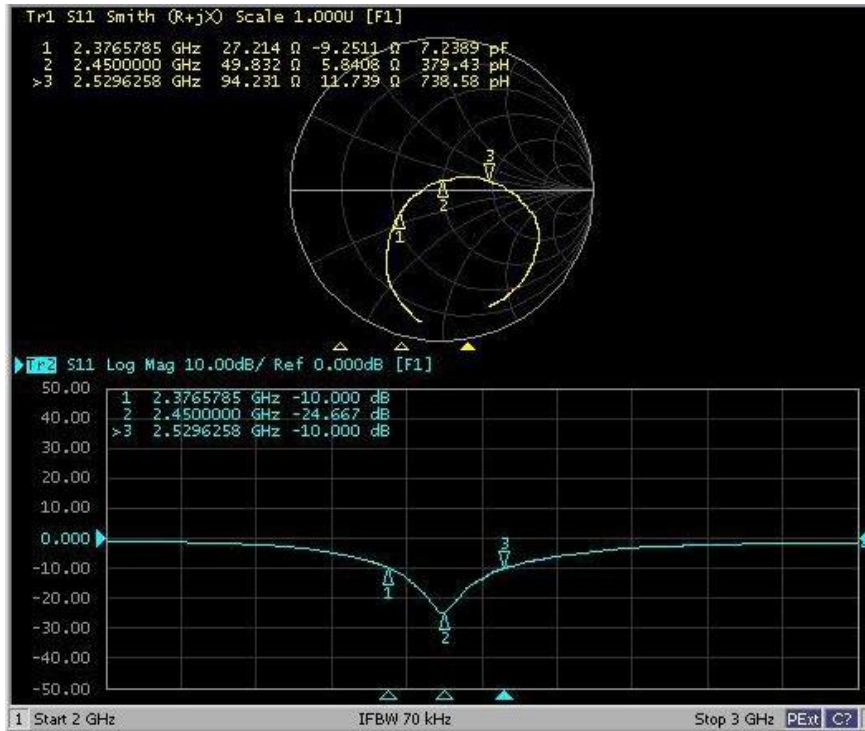
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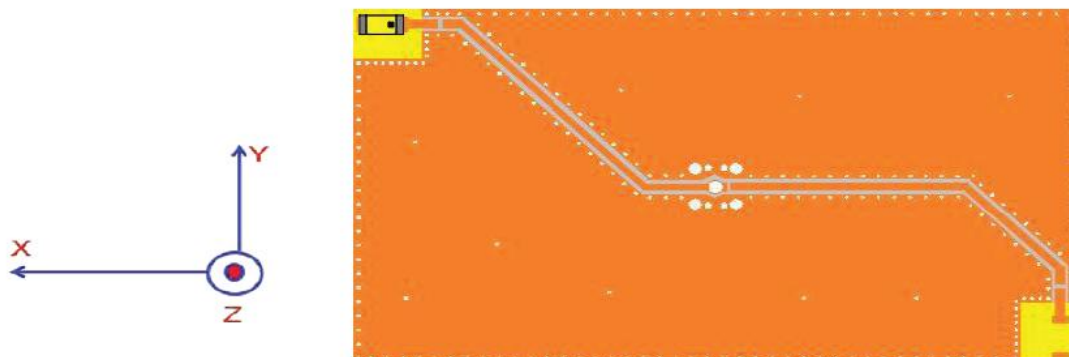
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(2) S-Parameter



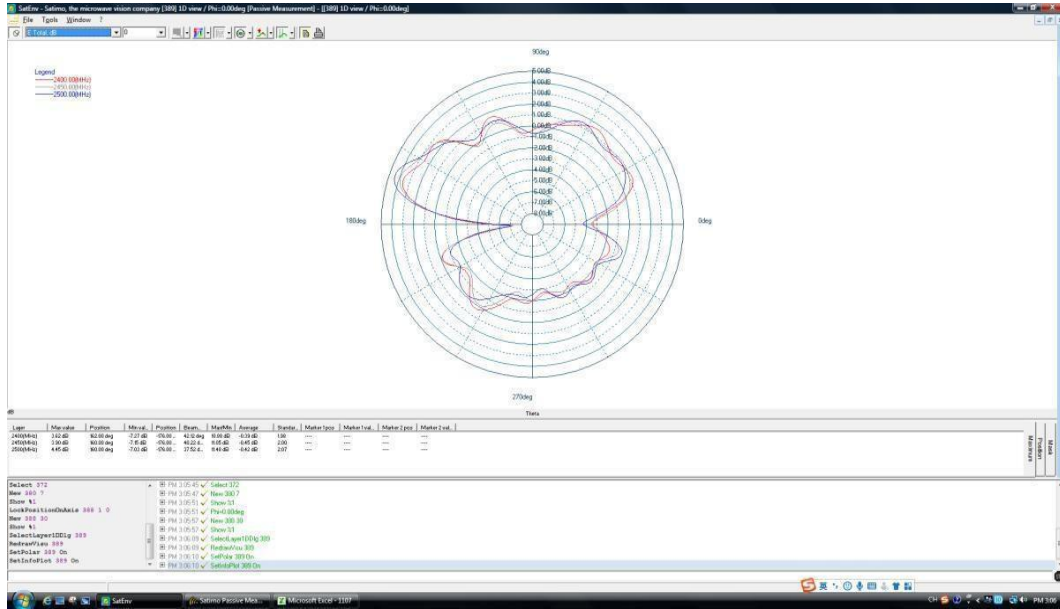
(3) Radiation Pattern



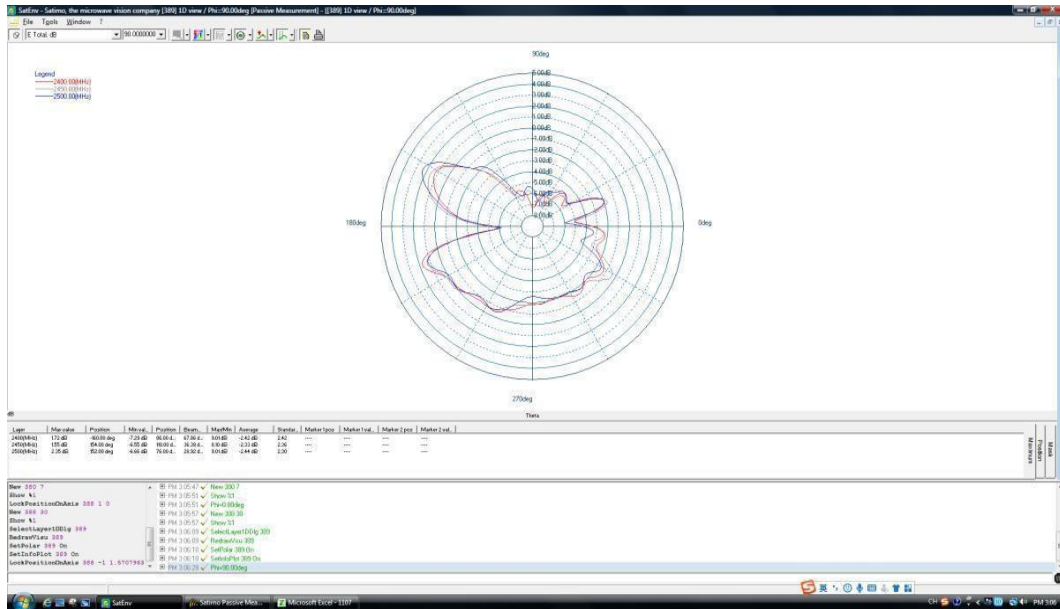
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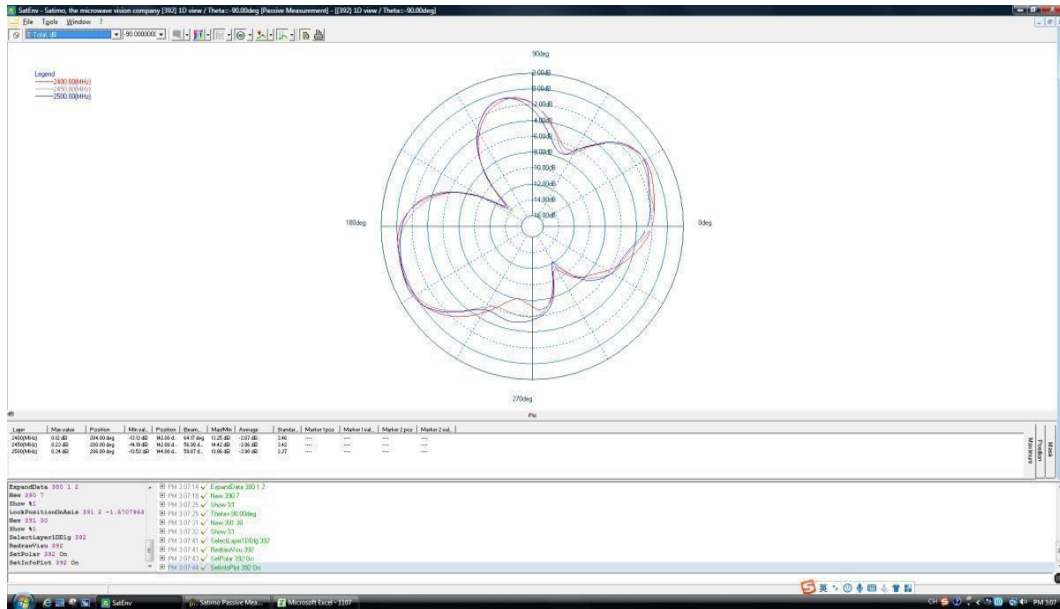
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Y-Z Plane



X-Z Plane



X-Y Plane

Frequency	2400MHz	2450MHz	2500MHz
Avg. gain	-2.25	-2.23	-2.25
Peak gain	3.68	4.75	3.72
Efficiency	68%	71%	69%

● Dependability Test

Test Temperature	25°C±3°C
Operating Temperature	-25°C~+85°C
Storage Temperature	5~+40°C

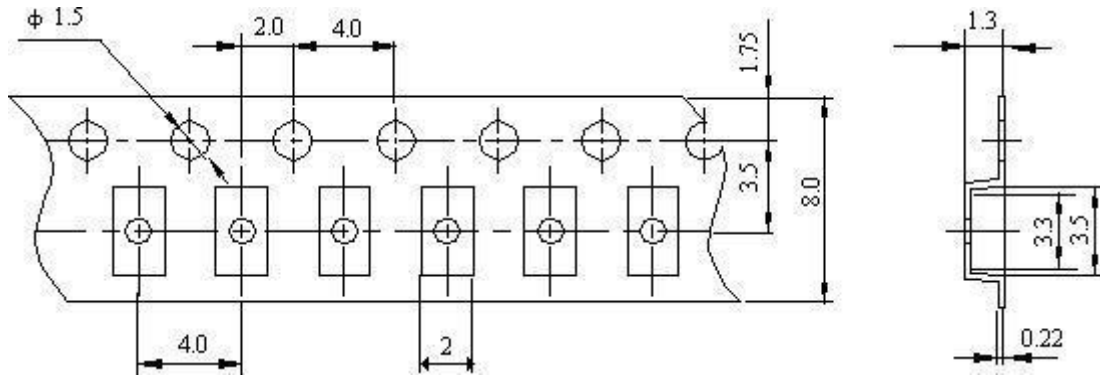
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Relative Humidity	20~70%HR
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● Packaging and Dimensions (3216)

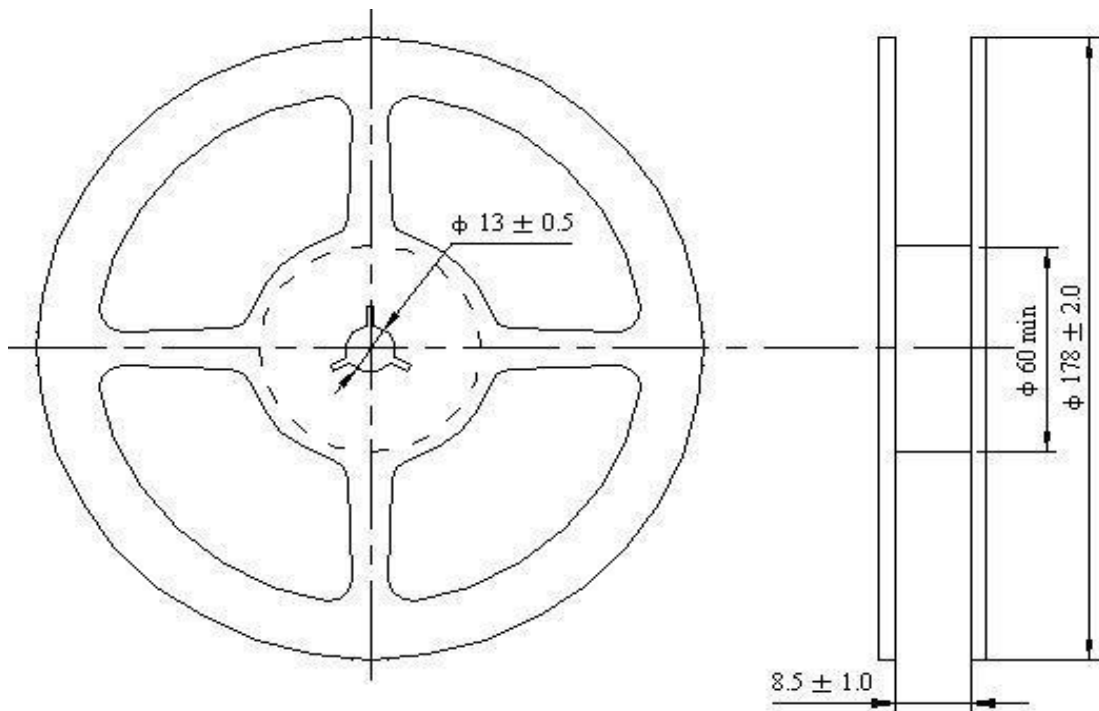
Plastic Tape



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.

Reel (3000 pcs/Reel)



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Storage Period

Product should be used within six months of receipt.

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