

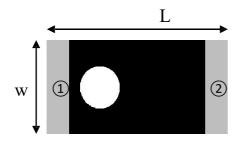
Features

- 1.Surface Mounted Devices with a small dimension of 3.6 x 1.6 x 0.5 mm³ meet future miniaturization trend.
- 2.Embedded and LTCC (Low Temperature Co-fired Ceramic) technology is able to future integrate with system design as well as beautifying the housing of final product.
- 3. High Stability in Temperature / Humidity Change

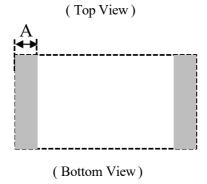
Applications

- 1. Bluetooth
- 2. Wireless LAN
- 3. ISM band 2.4GHz wireless applications

Dimensions (Unit: mm)



Number	Terminal Name	
1	INPUT	
2	NC	



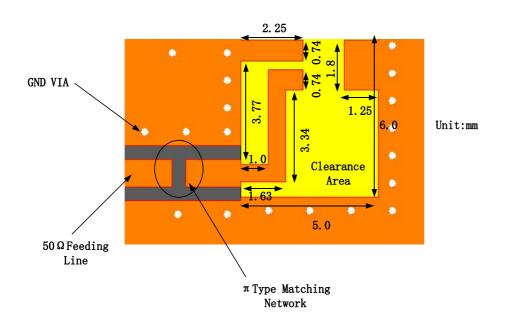


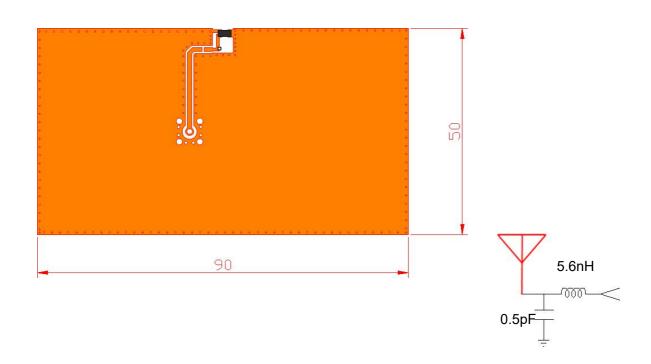
Symbols	L	W	T	A
Dimensions	3.2+/-0.2	1.6+/-0.2	0.5+/-0.1	0.4+/-0.1

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Evaluation Board and Matching Circuits





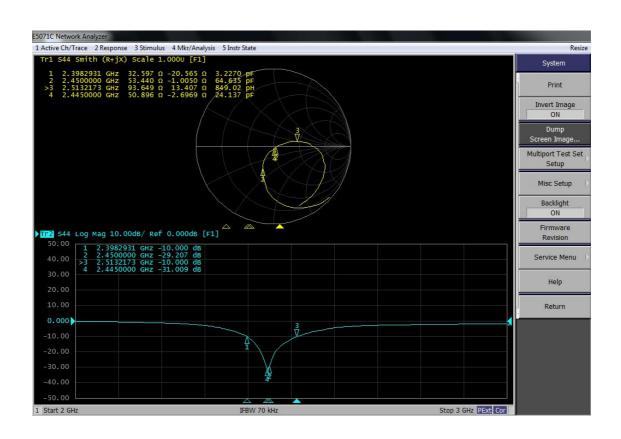
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Electrical Characteristics

No.	Item Specifications		
1	Central Frequency	2545MHz	
2	Band Width	100 MHz typ.	
3	Peak Gain	5.54 dBi	
4	Return Loss	≤2.0	
5	Polarization	Linear	
6	Azimuth Beam width Omni-directional		
7	Impedance	50 Ω	

Characteristic curve

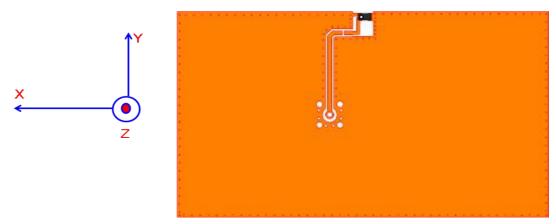


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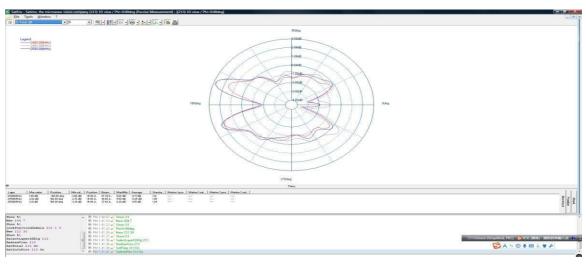


Radiation Pattern

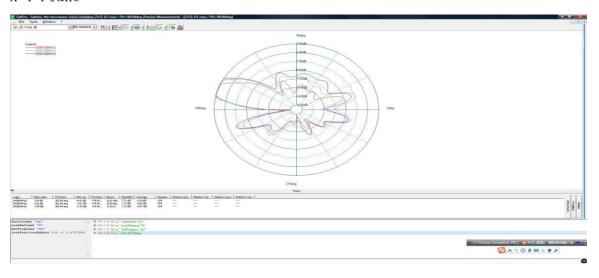
coordinates:



X-Z Plane



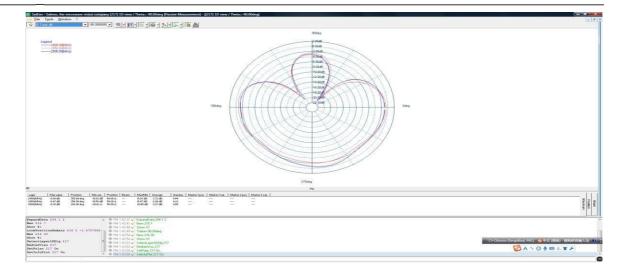
X-Y Plane



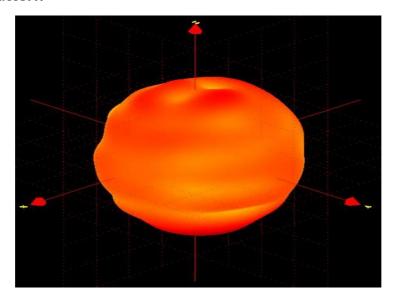
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3D Radiation Pattern



Frequency (MHz)	2400	2450	2500
Avg. Gain (dBi)	-1.91	-1.30	-1.48
Peck Gain (dBi)	1.76	4.08	2.53
Efficiency (%)	72.1	78.2	71.8

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Dependability Test

Temperature range $25\pm5^{\circ}\text{C}$ Relative Humidity range $55\sim75\%\text{RH}$ Operating Temperature range $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$ Storage Temperature range $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$

Vibration Resist

The device should fulfill the electrical specification after applied to the vibration of 10 to 55Hz with amplitude of 1.5mm for 2 hours each in X , Y and Z directions.

Drop Shock

The device should have no mechanical damage after dropping onto the hard wooden board from the height of 100cm for 3 times each facet of the 3 dimensions of the device.

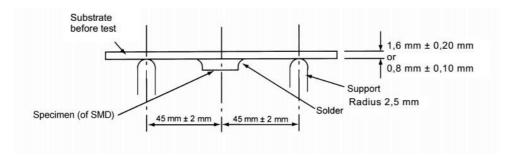
Solder Heat Proof

The device should be satisfied after preheating at $120\,^{\circ}\text{C} \sim 150\,^{\circ}\text{C}$ for 120 seconds and dipping in soldering Sn at $255\,^{\circ}\text{C} + 10\,^{\circ}\text{C}$ for 5 ± 0.5 seconds, or electric iron $300\,^{\circ}\text{C} - 10\,^{\circ}\text{C}$ for 3 ± 0.5 seconds, without damnify.

Adhesive Strength of Termination

The device have no remarkable damage or removal of the termination after horizontal force of $5N(\le 0603)$; 10N(>0603) with 10 ± 1 seconds.

Bending Resist Test



Weld the product to the center part of the PCB with the thickness 1.6 ± 0.2 mm or 0.8 ± 0.1 mm as the illustration shows, and keep exerting force arrow-ward on it at speed of :1mm/S, and hold for 5 ± 1 S at the position of 1.5mm bending distance, so far, any peeling off of the product metal coating should not be detected.

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Moisture Proof

The device should fulfill the electrical specification after exposed to the temperature $60\pm2\,^{\circ}$ C and the relative humidity $90\sim95\%$ RH for 96 hours and $1\sim2$ hours recovery time under normal condition.

High Temperature Endurance

The device should fulfill the electrical specification after exposed to temperature 85 ± 5 °C for 96 ± 2 hours and $1\sim2$ hours recovery time under normal temperature.

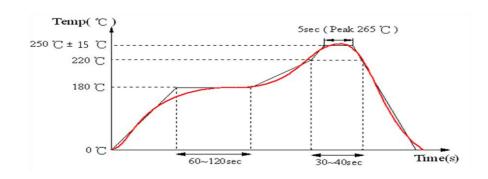
Low Temperature Endurance

The device should fulfill the electrical specification after exposed to the temperature $-40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 96±2 hours and to 2 hours recovery time under normal temperature.

Temperature Cycle Test

The device should fulfill the electrical specification after exposed to the low temperature -40°C and high temperature +85°C for 30±2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

Reflow Soldering Standard Condition

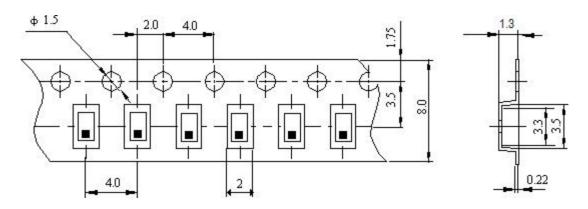


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Packaging and Dimensions (3216)

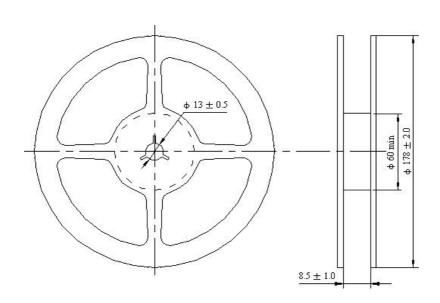
Plastic Tape



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)



Storage Period

Product should be used within six months of receipt.

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

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