

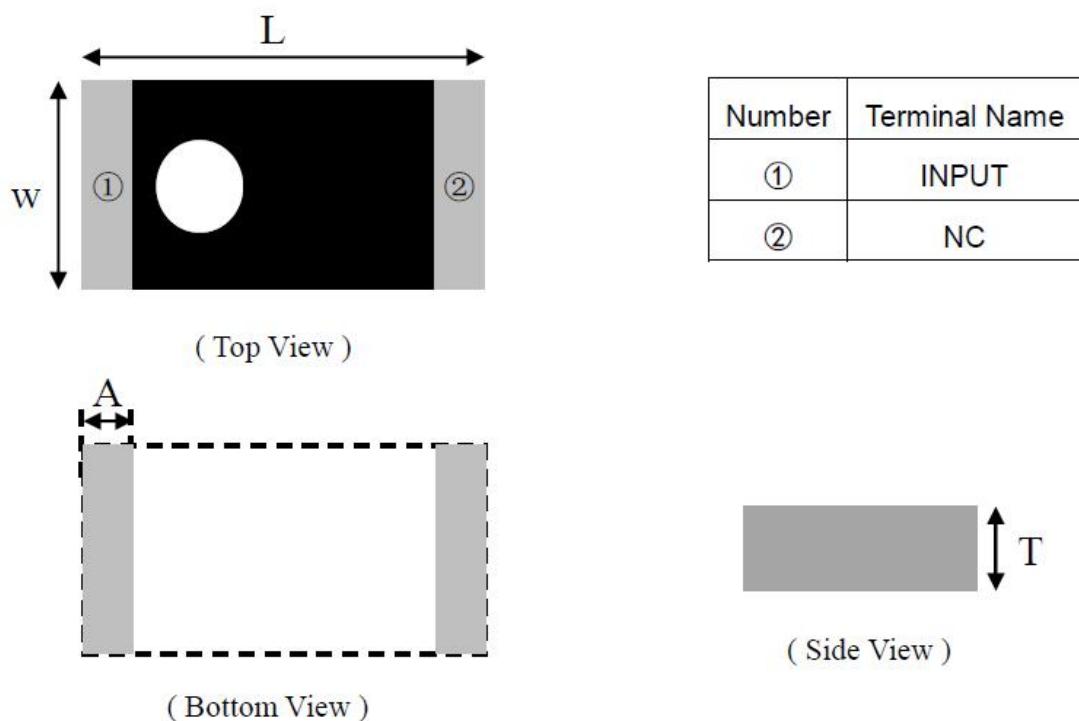
● Features

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)



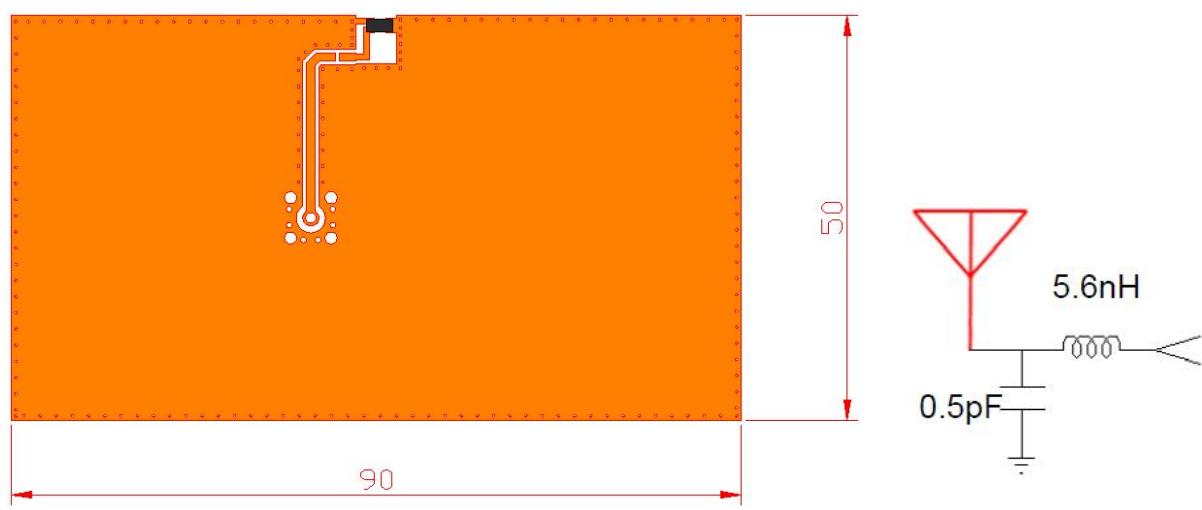
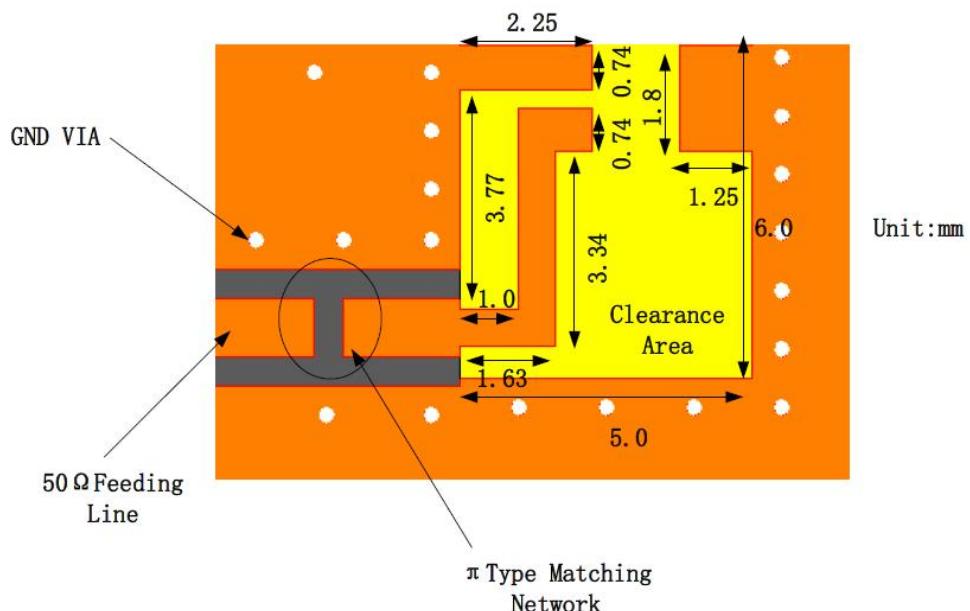
Symbols	L	W	T	A
Dimensions	3.20±0.20	1.60±0.20	0.50±0.10	0.40±0.10

SBR Communication has possession of proprietary information provided in this report and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SBR Communication Technology.

TEL: 0755-82790675, FAX: 0755-82809726 www.surbaner.com.cn

1 / 8

- Evaluation Board and Matching Circuits



SBR Communication has possession of proprietary information provided in this report and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SBR Communication Technology.

TEL: 0755-82790675, FAX: 0755-82809726 www.surbaner.com.cn

2 / 8

Shenzhen shengbanger Technology Co., Ltd

P/N: S03216ISMA04

REV:A0

- **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

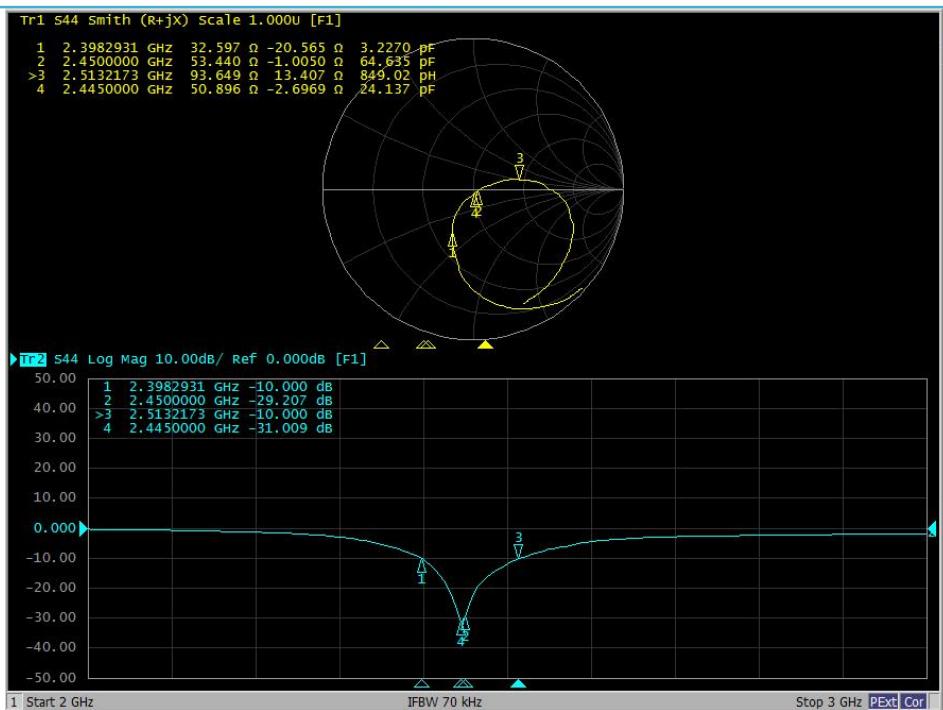
SBR Communication has possession of proprietary information provided in this report and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SBR Communication Technology.

TEL: 0755-82790675, FAX: 0755-82809726 www.surbaner.com.cn

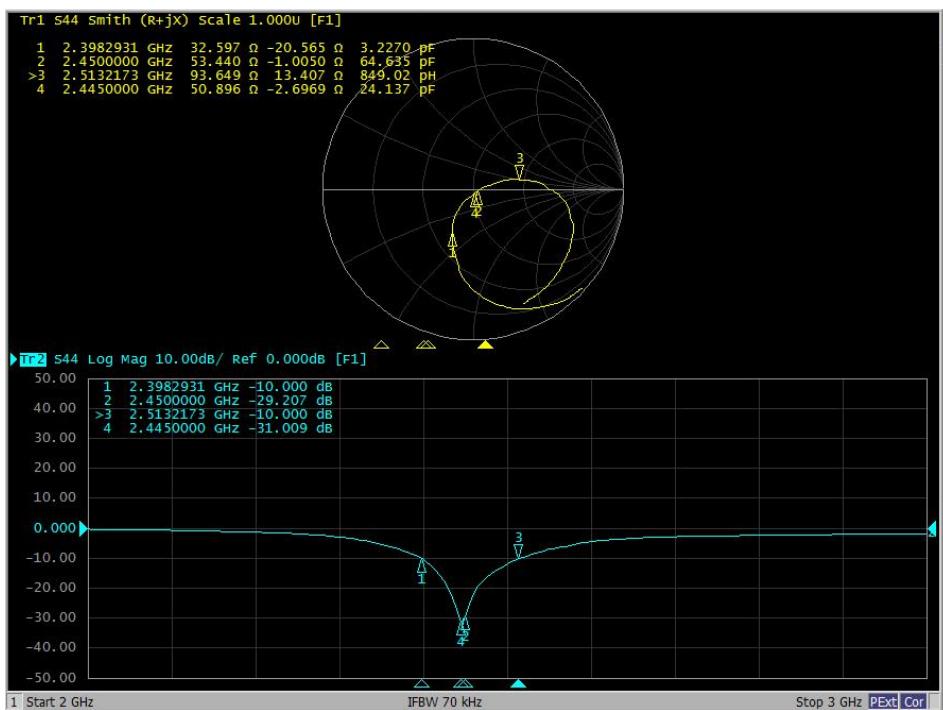
3 / 8

P/N: S03216ISMA04

REV:A0



(2) S-Parameter



SBR Communication has possession of proprietary information provided in this report and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SBR Communication Technology.

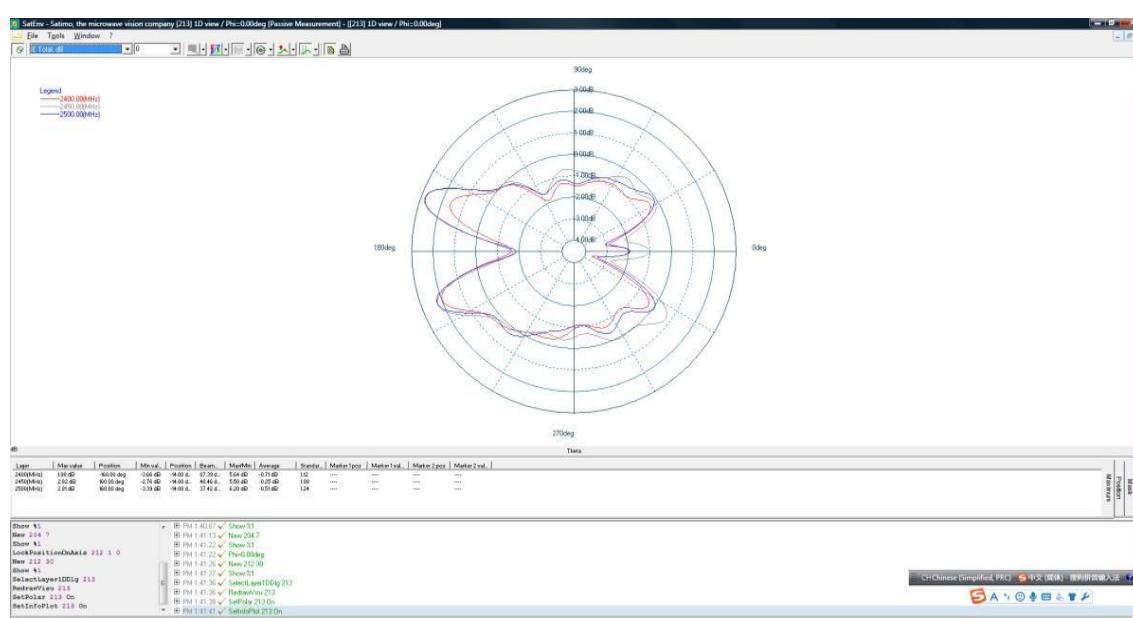
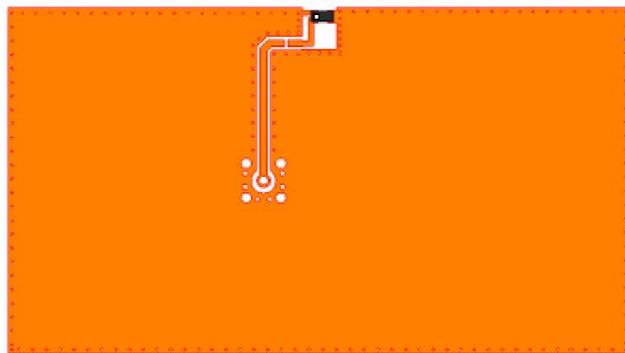
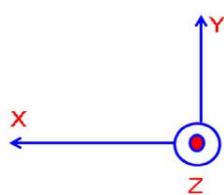
TEL: 0755-82790675, FAX: 0755-82809726 www.surbaner.com.cn

4 / 8

P/N: S03216ISMA04

REV:A0

(3) Radiation Pattern



Y-Z Plane

SBR Communication has possession of proprietary information provided in this report and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SBR Communication Technology.

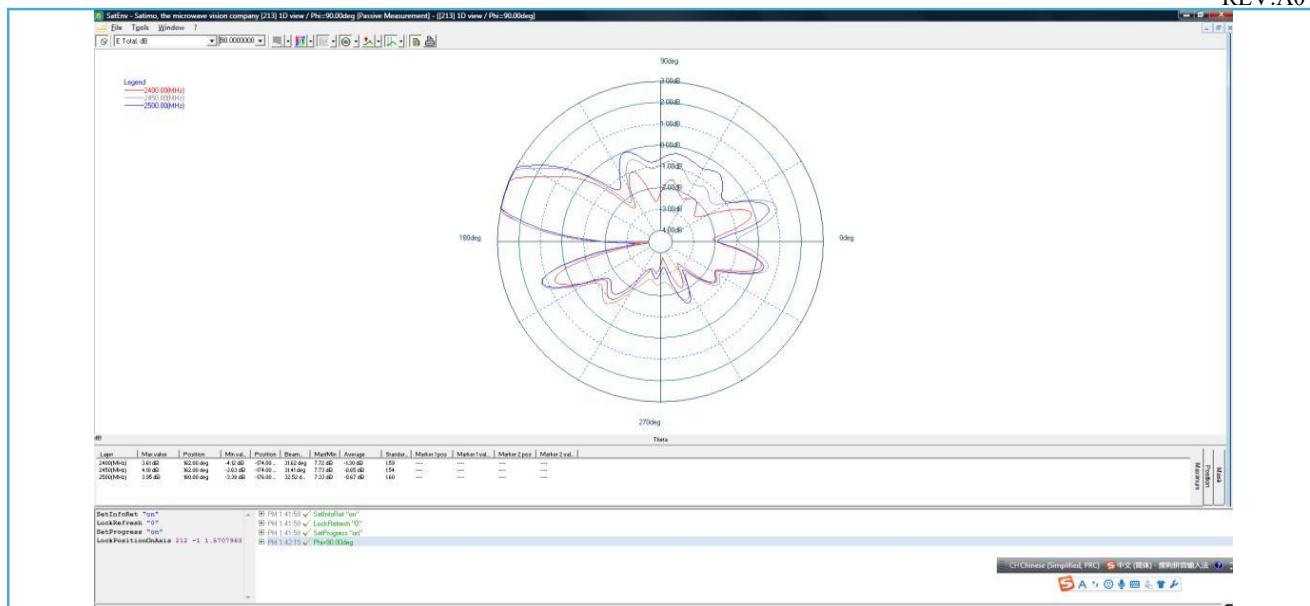
TEL: 0755-82790675, FAX: 0755-82809726 www.surbaner.com.cn

5 / 8

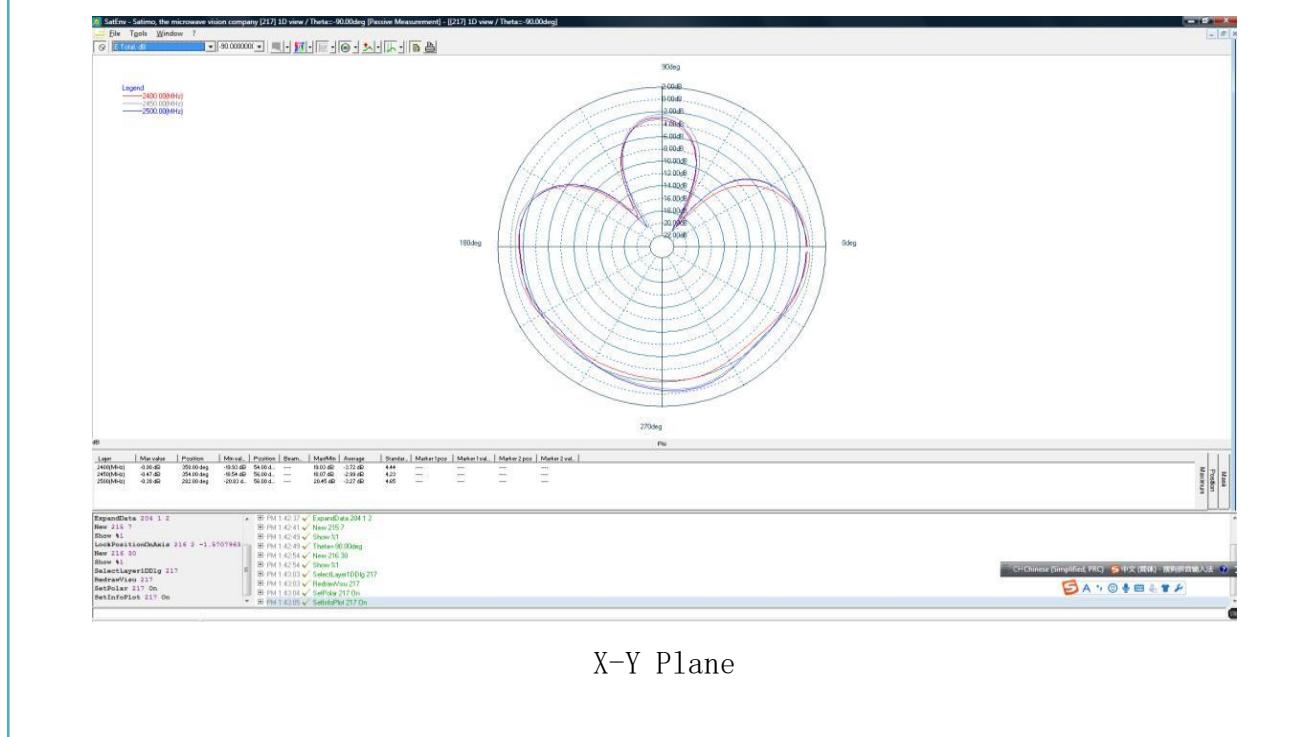
Shenzhen shengbanger Technology Co., Ltd

P/N: S03216ISMA04

REV:A0



X-Z Plane



X-Y Plane

SBR Communication has possession of proprietary information provided in this report and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SBR Communication Technology.

TEL: 0755-82790675, FAX: 0755-82809726 www.surbaner.com.cn

6 / 8

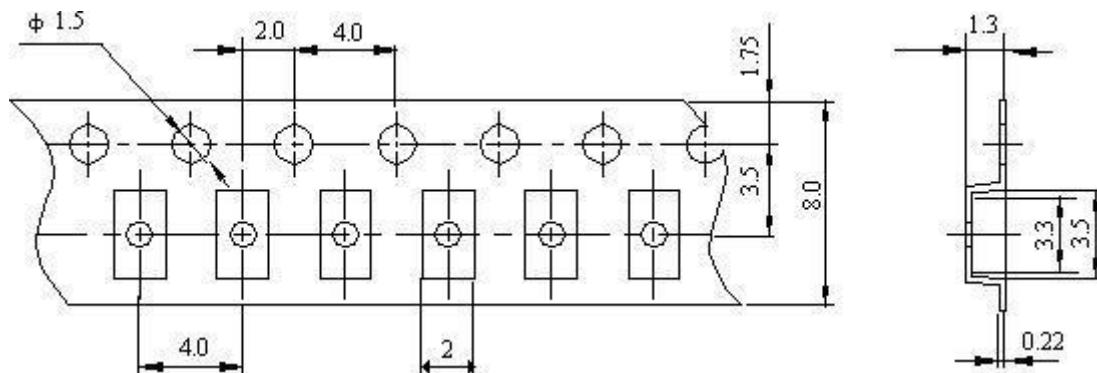
Frequency	2400MHz	2450MHz	2500MHz
Avg. gain	-1. 91	-1. 30	-1. 48
Peak gain	1. 76	4. 08	2. 53
Efficiency	72. 1%	78. 2%	71. 8%

● 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.

SBR Communication has possession of proprietary information provided in this report and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SBR Communication Technology.

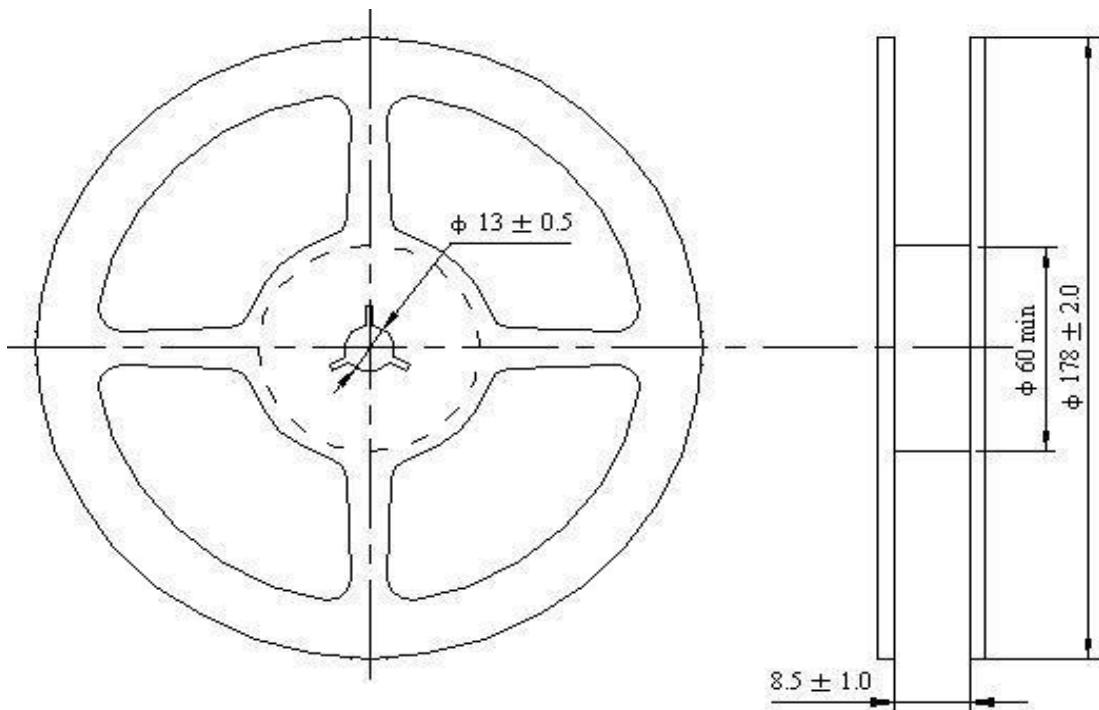
TEL: 0755-82790675, FAX: 0755-82809726 www.surbaner.com.cn

7 / 8

P/N: S03216ISMA04

REV:A0

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

SBR Communication has possession of proprietary information provided in this report and this proprietary information shall be kept in strict confidence and not disclosed to any person or firm without the prior written consent of SBR Communication Technology.

TEL: 0755-82790675, FAX: 0755-82809726 www.surbaner.com.cn

8 / 8