

2.44GHzPCB Antenna: 3216板载双极回型天线

※Bluetooth Home RF

※ISM band 2.4GHz applications

Electrical Specification

number	Item	Specifications
1	Working Central Frequency	2441 MHz
2	Band Width	(2402-2480)MHz
3	Gain	0dBi
4	VSWR	≤2.0
5	Antenna type	PCB antenna
6	Azimuth Beam width	Omni - directional
7	Impedance	50 Ω
8	Modulation mode	GFSK

Manufacture And Tester

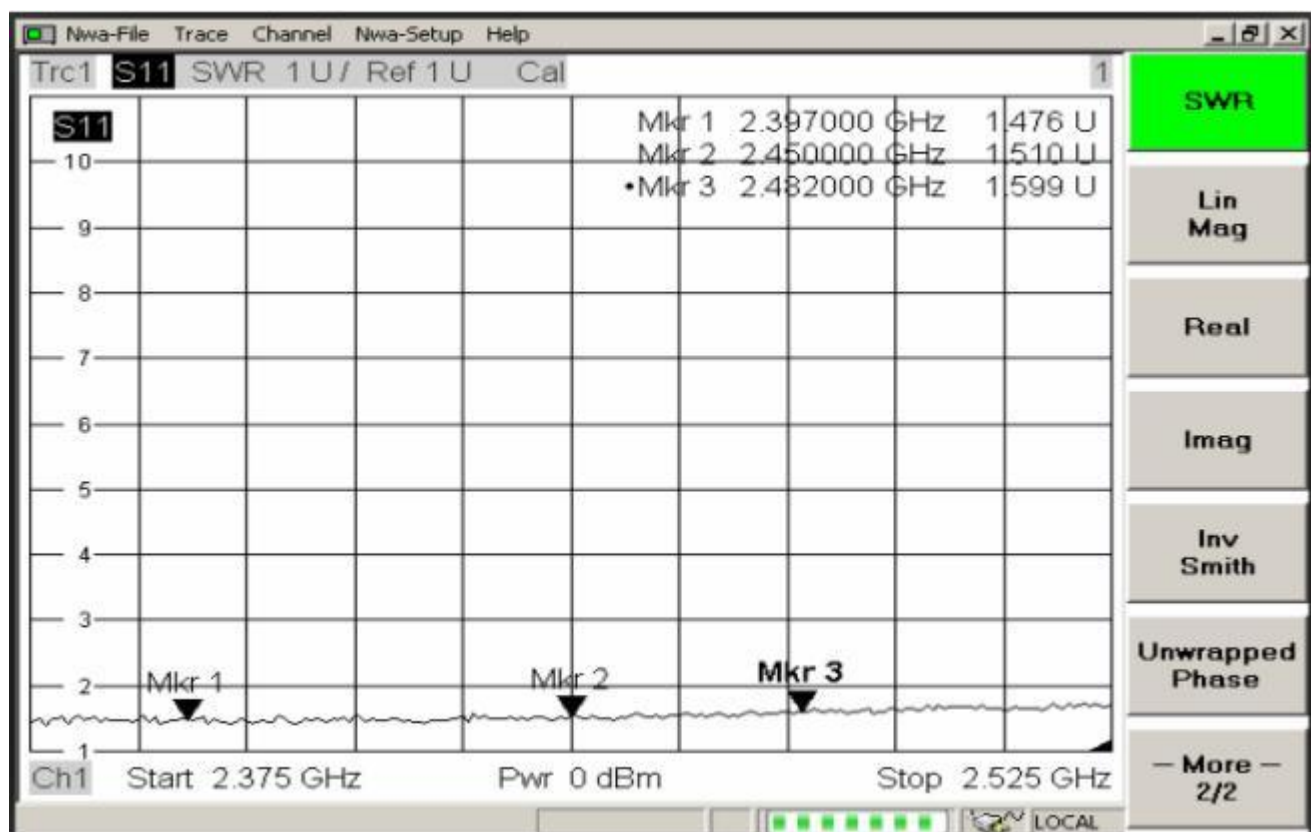
Manufacture	DONGGUAN ZHENGHEZHIXING TECHNOLOGY CO. , LTD.
ANT Test Labs	SHENZHEN HIICOMM INNOVATIONS TECHNOLOGY CO.,LTD

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3. simulation parameter

① VSWR

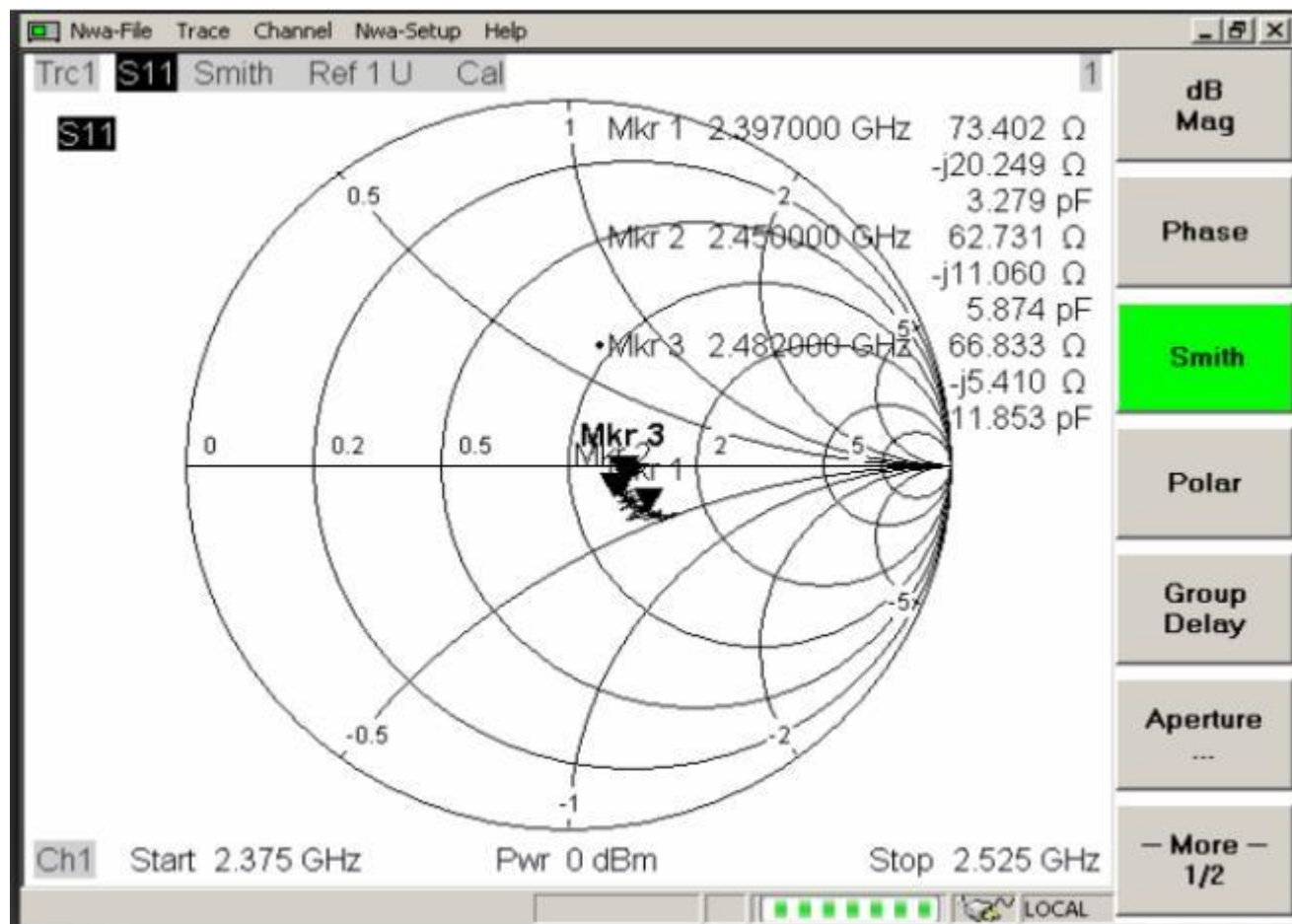
Mkr1: 2397MHz 1.47 Mkr2: 2450MHz 1.51 Mkr3: 2482 MHz 1.59



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②Smith Char

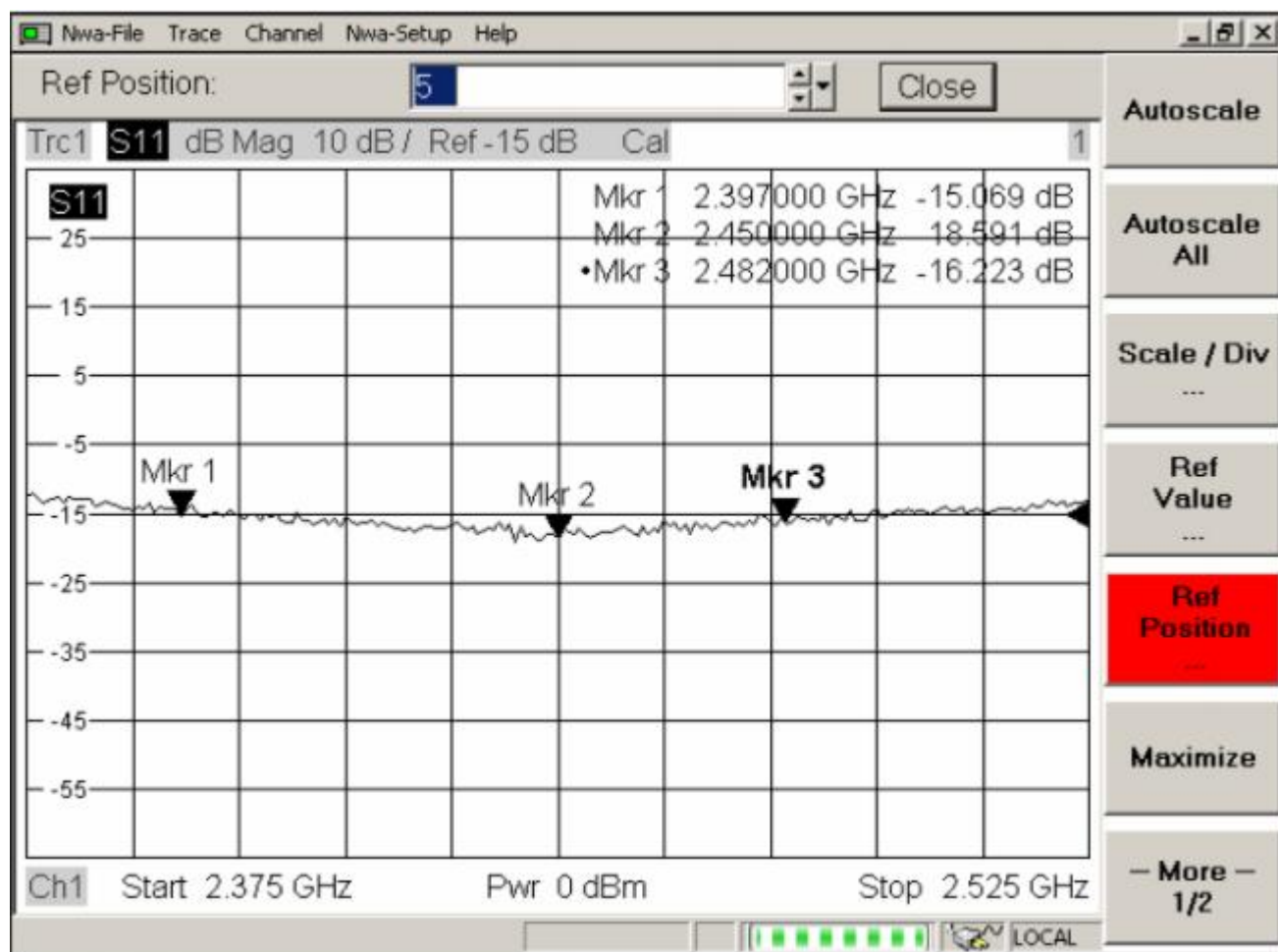
Mkr1: 2397MHz 73.4 Mkr2: 2450MHz 62.7 Mkr3: 2482 MHz 66.8



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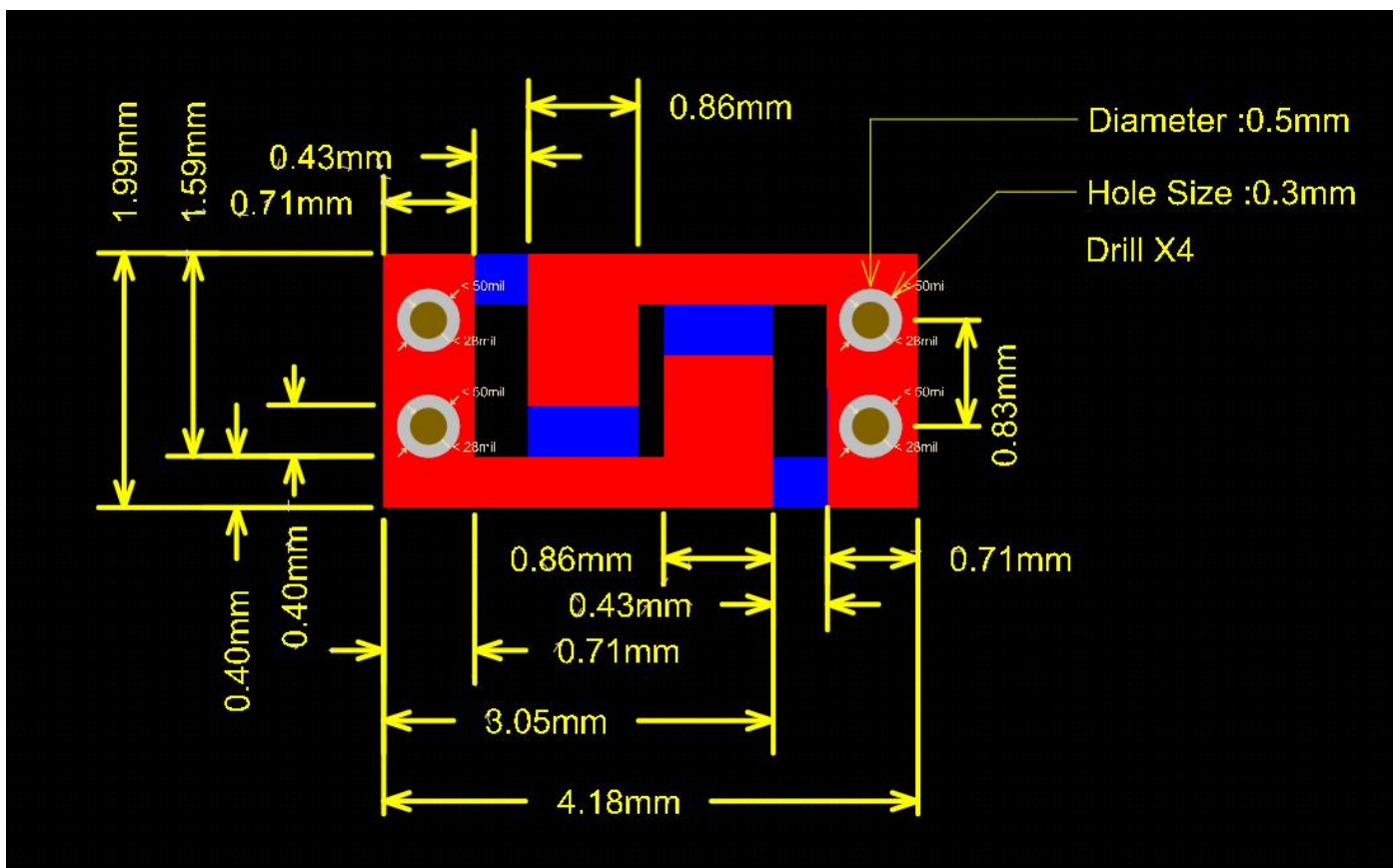
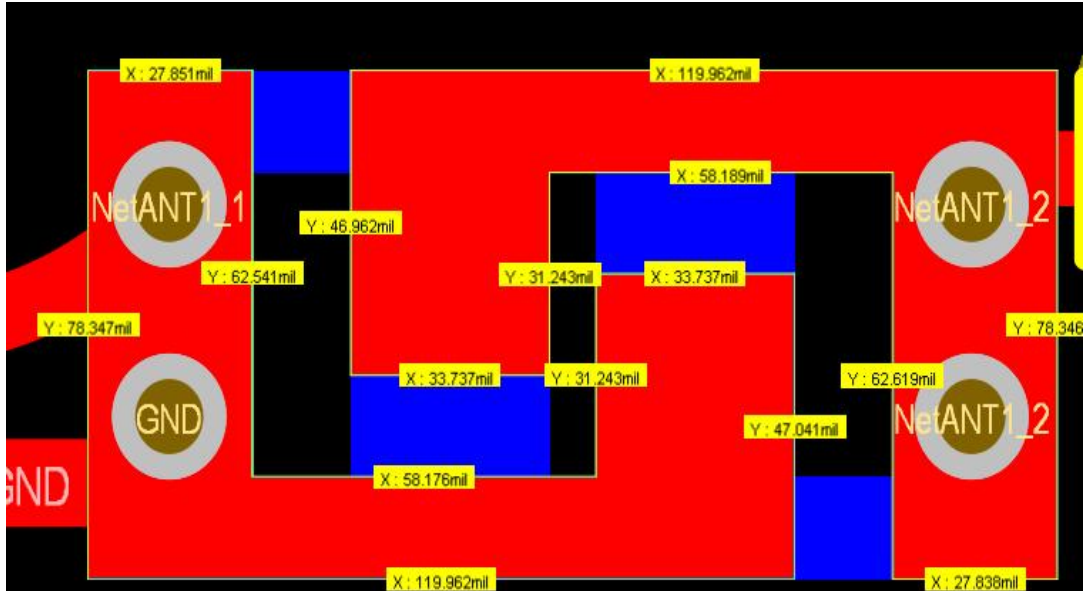
③Return Loss

Mkr1: 2397MHz -15 Mkr2: 2450MHz -18 Mkr3: 2482 MHz -16



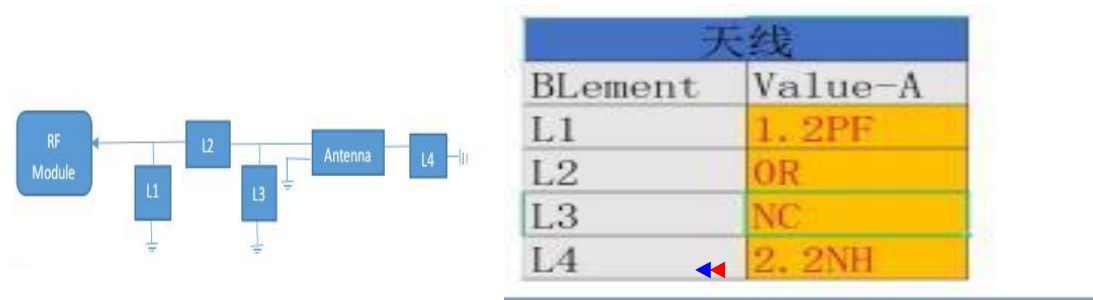
2.44GHz PCB Antenna: 3216板载双极回型天线

Dimension and Terminal Configuration

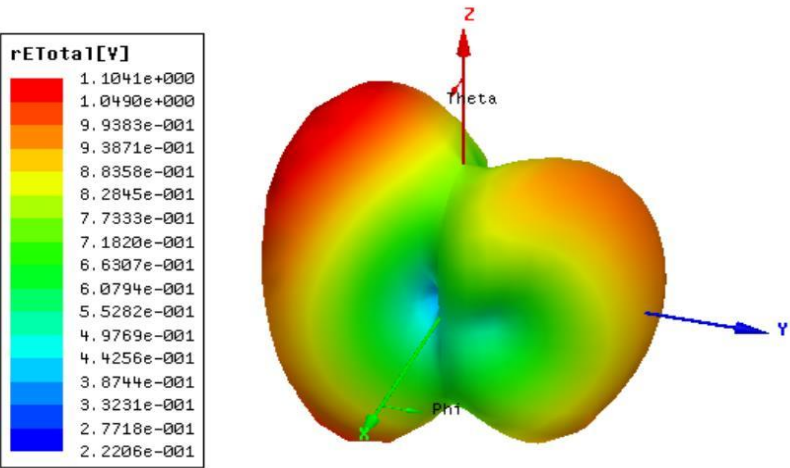


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Antenna parameters and 3D Radiation pattern

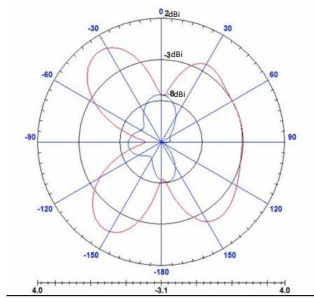


3D Radiation pattern

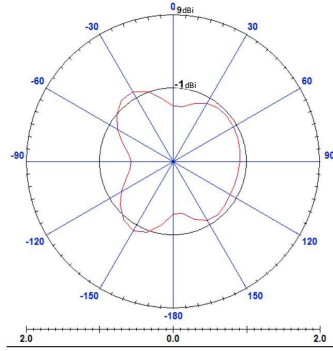


4. Radiation Patterns

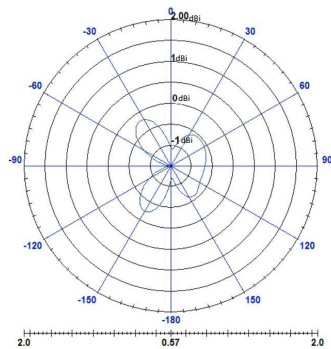
2450MHz XY-plane Max Gain 0dbi



2450MHz XZ-plane Max Gain -0.13dbi



2450MHz YZ-plane Max Gain -0.39dbi



Taping Specifications

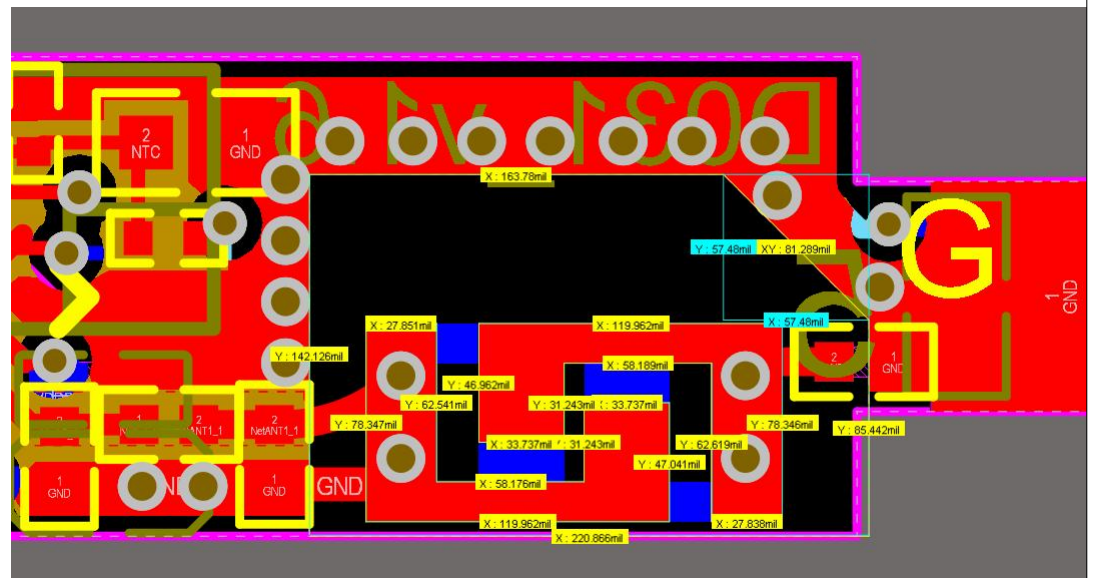
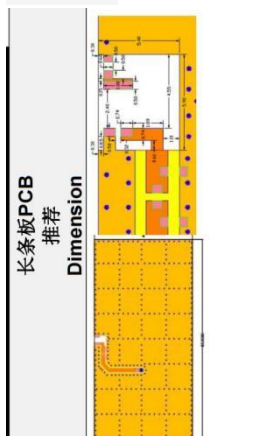
Reel and Taping Specification

Antenna clearance

area :

142*163*82*85*220

(mil)



Mkr1: 2400MHz 1.234

Mkr2: 2500MHz 1.051

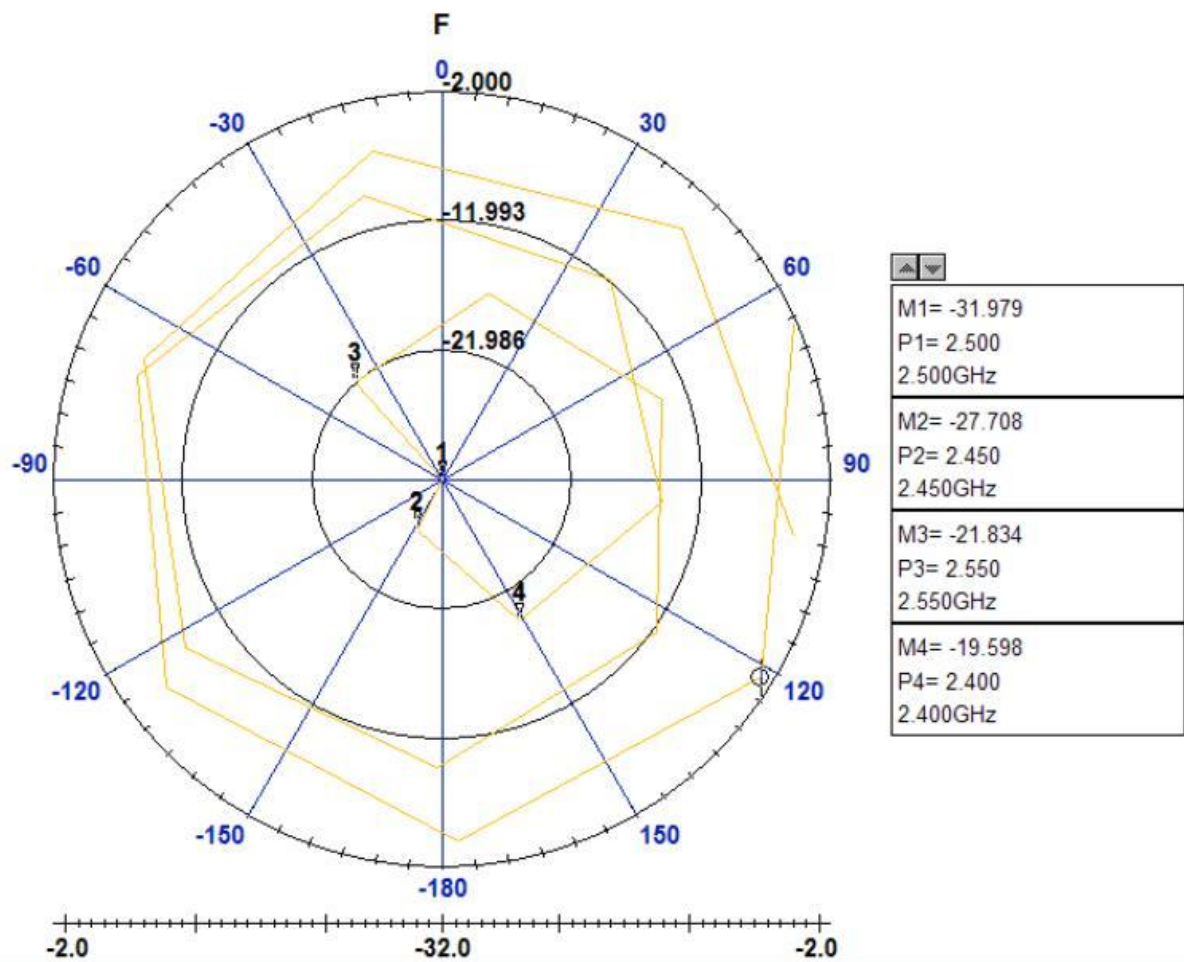
Mkr3: 2600MHz 1.322



⑤Return Loss

Mkr1: 2400MHz -19.59 Mkr2: 2450MHz -27.70 Mkr3: 2500MHz -31.97

Mkr4: 2450MHz -21.83



⑥Phase

Mkr1: 2400MHz -54.89 Mkr2: 2500MHz -82.03 Mkr3: 2600MHz -102.6

