



WLT8016

Antenna Specification

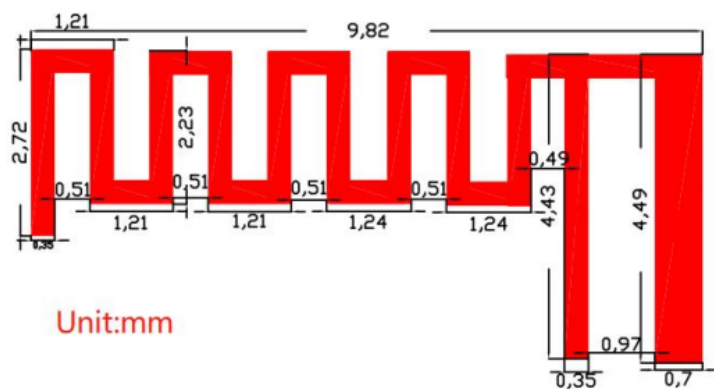
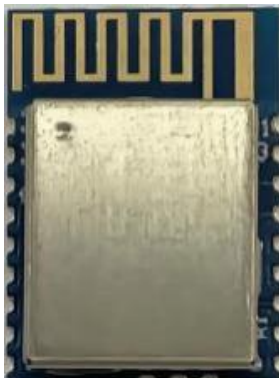
V1.4

Wi-inktech Communication Technologies(Shanghai) Co.,Ltd.

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1.overview

This antenna specification describes the RF performance of the WLT8016 module onboard antenna, ensuring that when connected to a 50 ohm source, the VSWR is less than 2 on the 2.4 GHz ISM band, the gain chart of the antenna in different directions, the antenna efficiency and gain values in different frequency bands.



Antenna size

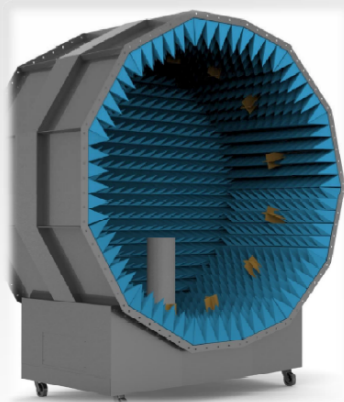
Design Specifications	Typical	Units
Antenna type	PCB antenna	
working Frequency	2400-2500	MHZ
Gain (max)	-0.06	DBi
Antenna efficiency	30~50	%
VSWR	<1.8	
Radiation pattern	omnidirectional	
impedance	50	ohm
Overall dimensions	9.8*4.49	mm
Weight	No requirement	
Operatin Temp	-40-85	°C
Storing Temp	-40-85	°C

Antenna information

2.Test equipment

测试设备 / Equipment

auden^o



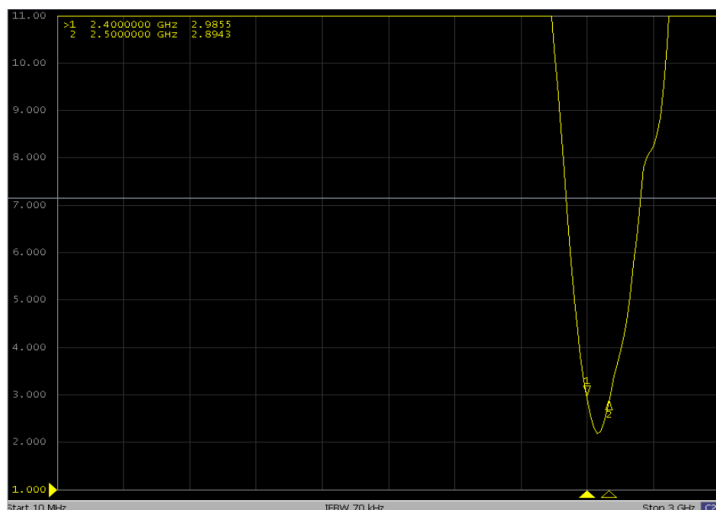
- GTS Rayzone1800
- Agilent E5071C
- Agilent 8960
- Anritsu MT8820
- StarPoint SP6010
- Anritsu MT8860
- Agilent E4438C



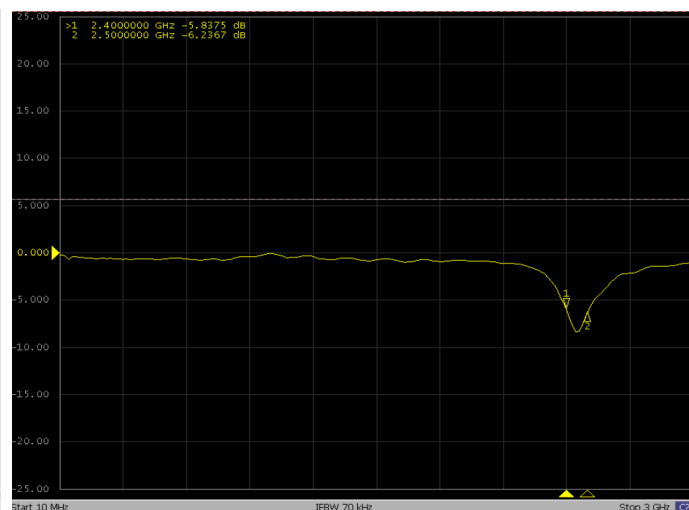
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Many aspects of this presentation are protected by US, TW, CN and international patents and patent applications

3.Return loss、 VSWR



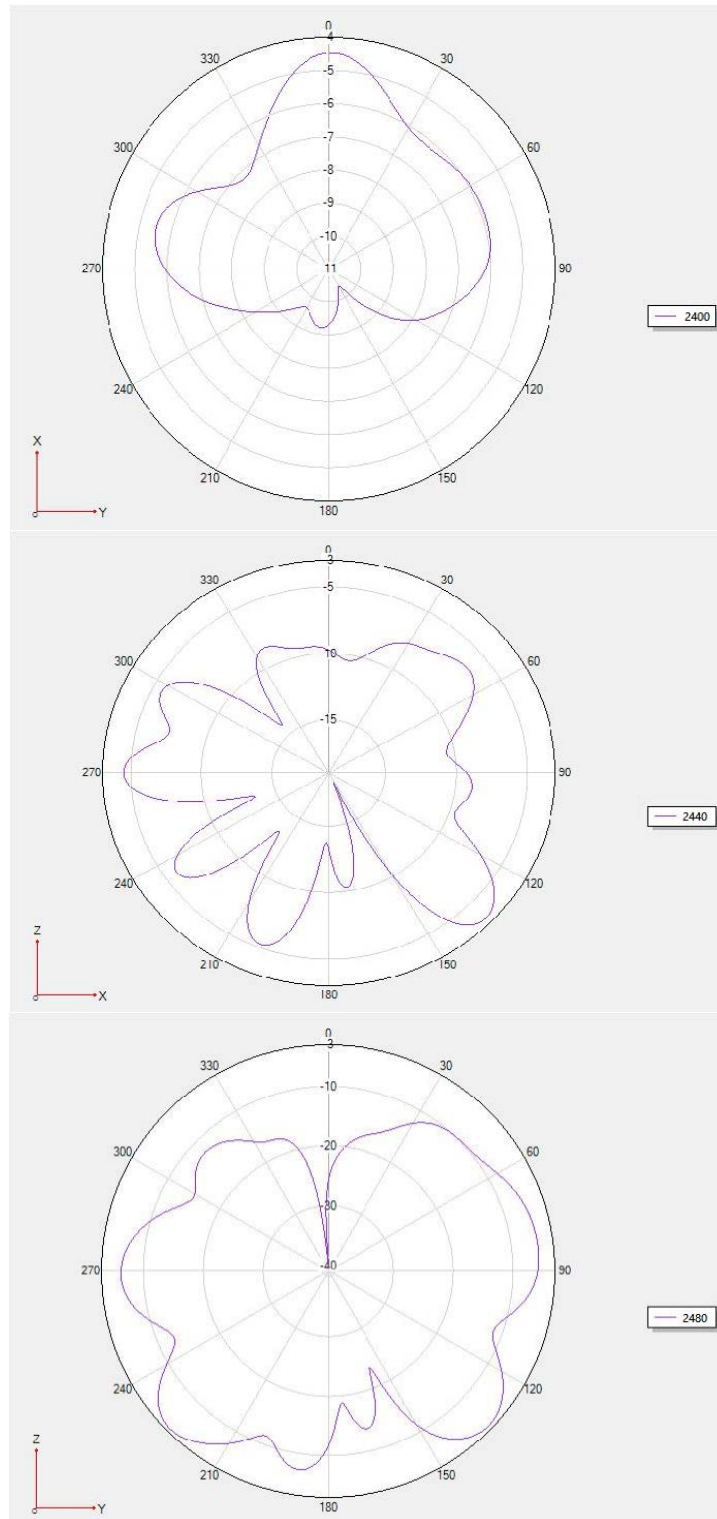
VSWR



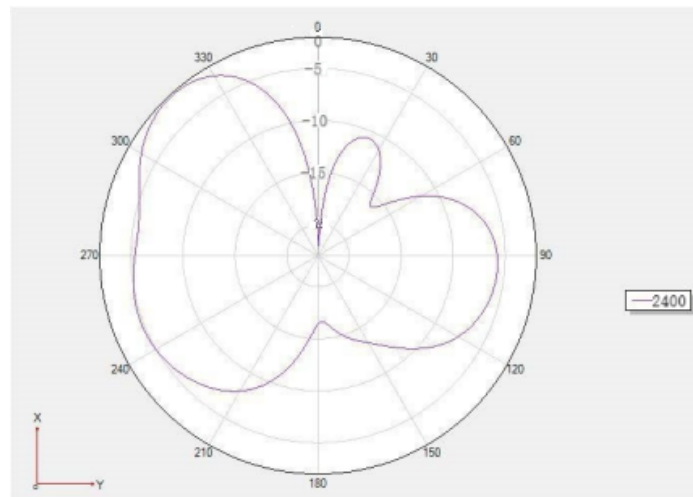
Return loss

4. Direction and gain diagram

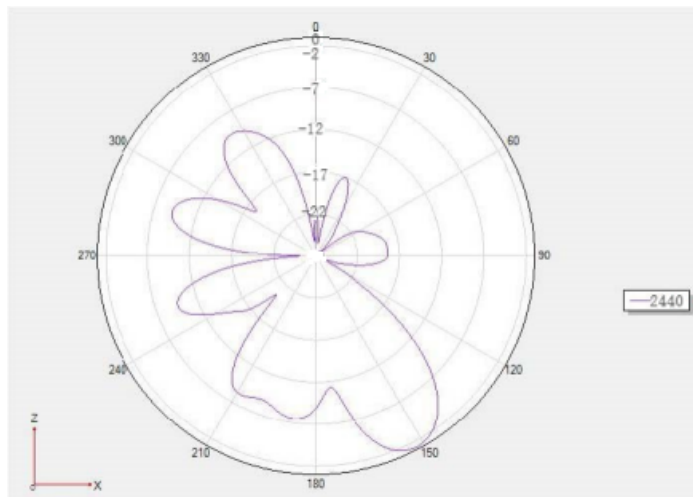
Etheta[Unit:dBi]



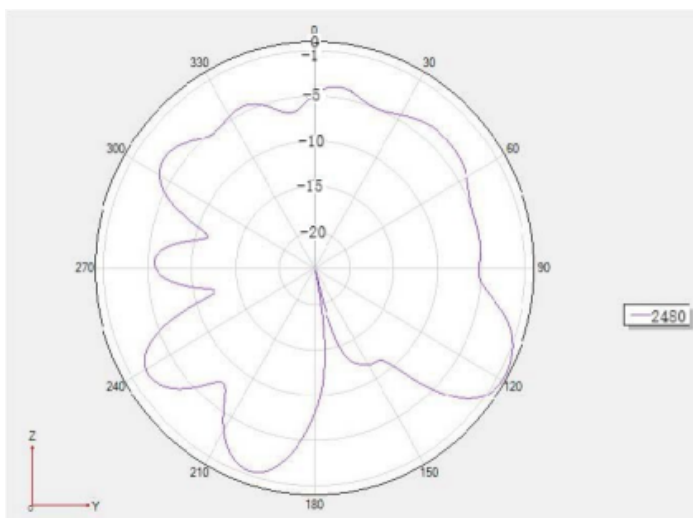
Ephi[Unit:dBi]



Gain: -1.90dBi



Gain: -0.72dBi



Gain: -0.06 dBi

5. Antenna gain table

Frequency / MHz	Efficiency / %	Gain/ dBi
2400	22.29	-1.90
2410	24.61	-1.52
2420	26.72	-1.15
2430	28.62	-0.77
2440	27.97	-0.72
2450	30.65	-0.17
2460	30.04	-0.16
2470	28.77	-0.17
2480	28.70	-0.06
2490	26.38	-0.34
2500	25.77	-0.40