



天线规格书

Antenna specification

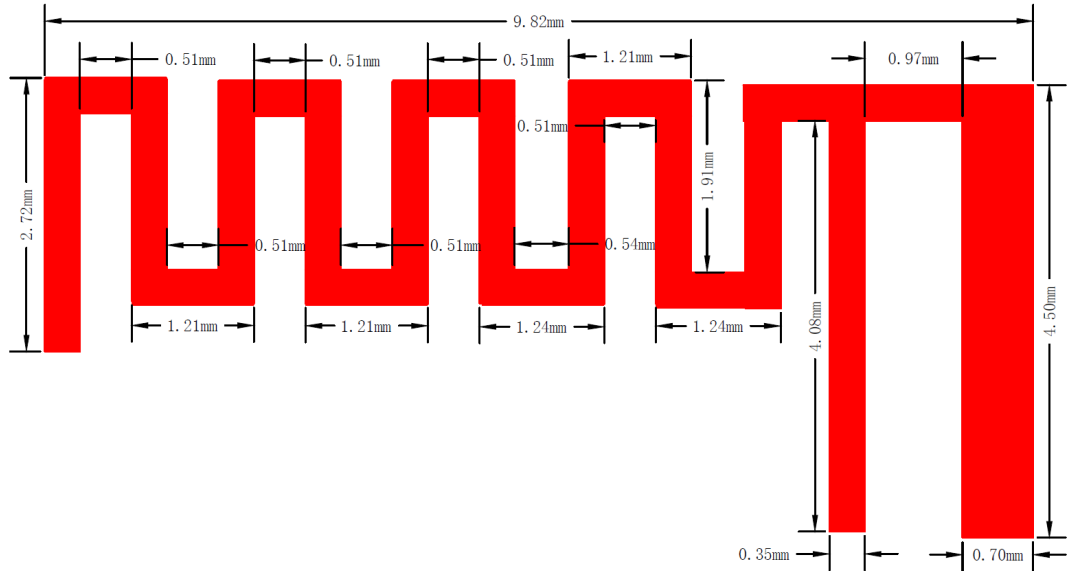
Latest version V1.2

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

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1. Overview

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

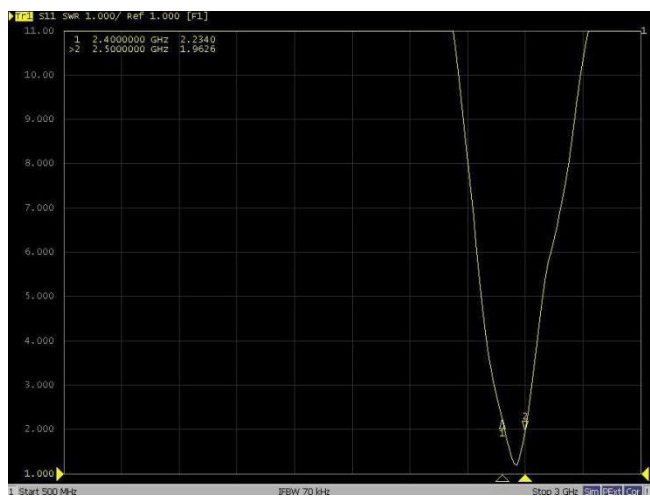


Antenna size

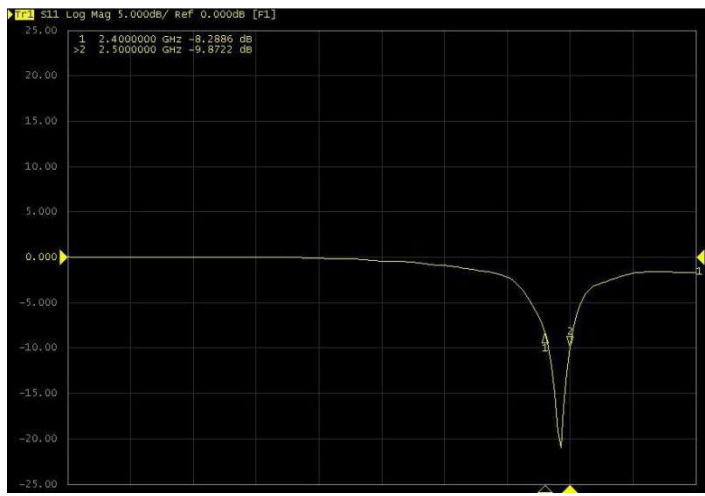
Design Specifications	Typical	Units
Antenna type	PCB antenna	
working Frequency	2400-2500	MHZ
Gain (max)	-1.42	DBi
Antenna efficiency	30~50	%
VSWR	<1.8	
Radiation pattern	omnidirectional	
impedance	50	ohm
Overall dimensions	9.83*4.50	mm
Weight	No requirement	
Operatin Temp	-40-85	℃
Storing Temp	-40-85	℃

Antenna information

2. Return loss、VSWR



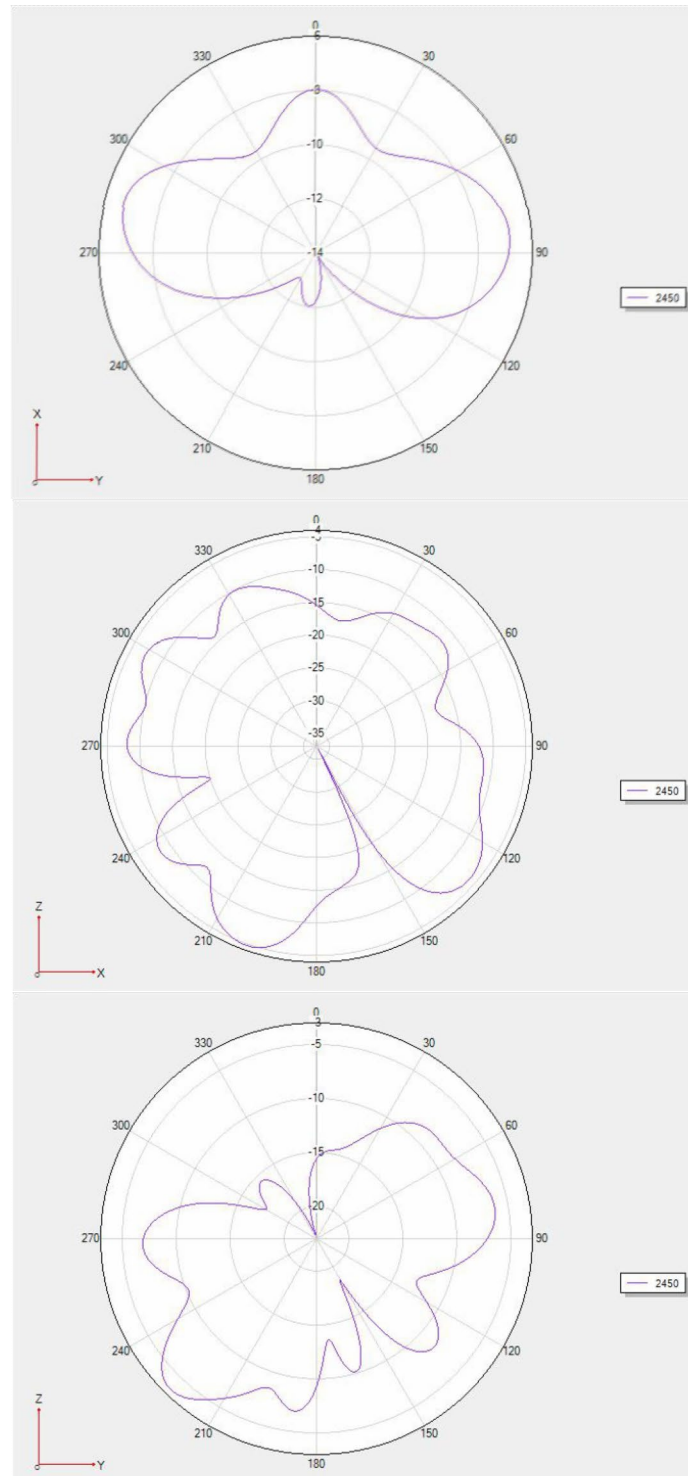
Return loss



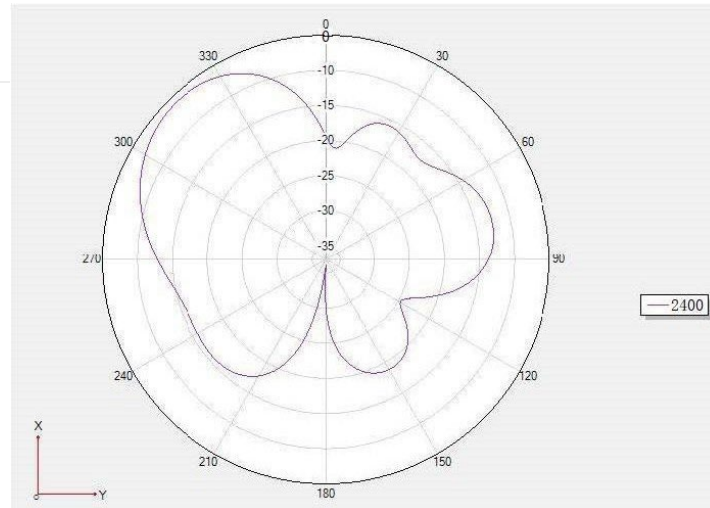
VSWR

3. Direction and gain diagram

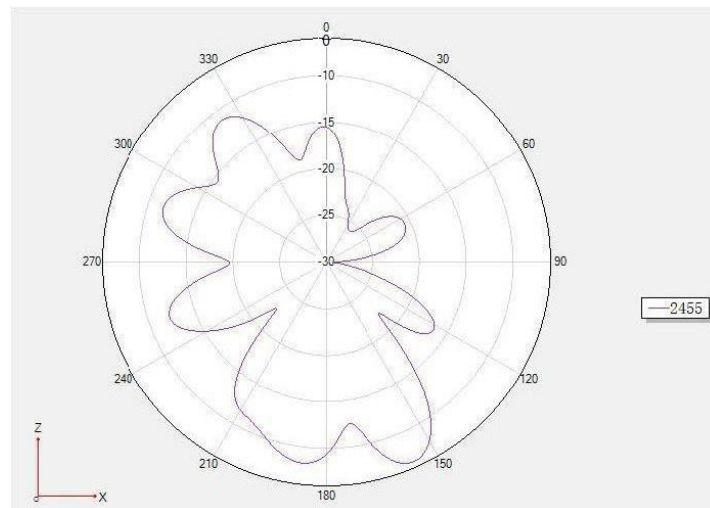
Etheta



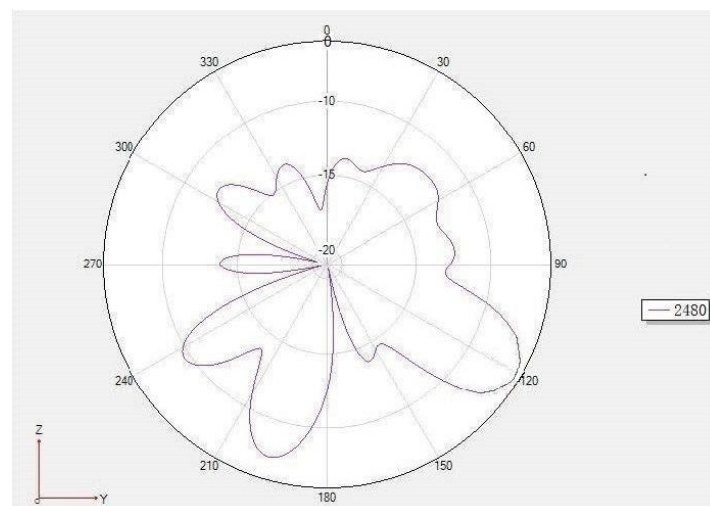
Ephi



gain增益: -2.33dBi



gain增益: -1.42dBi



gain增益: -1.55dBi

4. Antenna gain table

Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
2400	-7.08	19.59	-2.33
2405	-6.88	20.51	-2.26
2410	-6.77	21.04	-2.41
2415	-6.68	21.48	-1.96
2420	-6.7	21.38	-2.31
2425	-6.59	21.93	-2.03
2430	-6.41	22.86	-1.9
2435	-6.54	22.18	-2.28
2440	-6.48	22.49	-1.45
2445	-6.27	23.6	-1.7
2450	-6.37	23.07	-1.77
2455	-6.32	23.33	-1.42
2460	-6.39	22.96	-2.05
2465	-6.51	22.34	-1.61
2470	-6.29	23.5	-1.67
2475	-6.53	22.23	-2.1
2480	-6.65	21.63	-1.55
2485	-6.49	22.44	-1.82
2490	-6.72	21.28	-2.29
2495	-6.77	21.04	-2.28
2500	-6.86	20.61	-2.47

About Us

Wi-lintech Communication Technologies(Shanghai)Co., Ltd. was established in 2011 and is a rapidly growing IoT wireless communication technology company located in the core area of Zhang jiang High-Tech Park in Pudong, Shanghai. The company specializes in providing global leading IoT wireless connectivity solutions (WIFI/Bluetooth/BLE/Lora/NB- IOT etc.), including proprietary research and development and self-branded communication chips, communication modules, communication boards, communication protocol software, mobile APP, cloud computing, etc. The main services are provided for large and medium- sized customers in industries such as industrial IoT, automotive, medical and fitness, financial payment and security, high-end consumer electronics, professional musical instruments, and office equipment in China, the United States, Europe, Korea and other regions.

The company adheres to the philosophy of people-oriented, integrity, responsibility and innovation, and is committed to becoming a high-tech company with talent and technology as the core competitiveness and sustainable development. The core team of the company has more than 10 years of management and technical experience in 500-strong US-based high-tech enterprises, emphasizes sustainable win-win cooperation with customers, and combines the company's wireless connectivity and Cloud technology with customers' industry applications for in-depth customization, providing reliable wireless connectivity technology support for the continuous product and service innovation of large and medium-sized customers in the IoT era.

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