

ANTENNA SPECIFICATION OF WLT8258

V1.0

1、OVERVIEW

This antenna specification describes the RF performance of the onboard antenna of the WLT8258 module, ensuring that when connected to a 50 ohm source, the VSWR ratio in the 2.4 GHz ISM band is less than 3, the gain diagram of the antenna in different directions, and the antenna efficiency and gain values in different frequency bands.

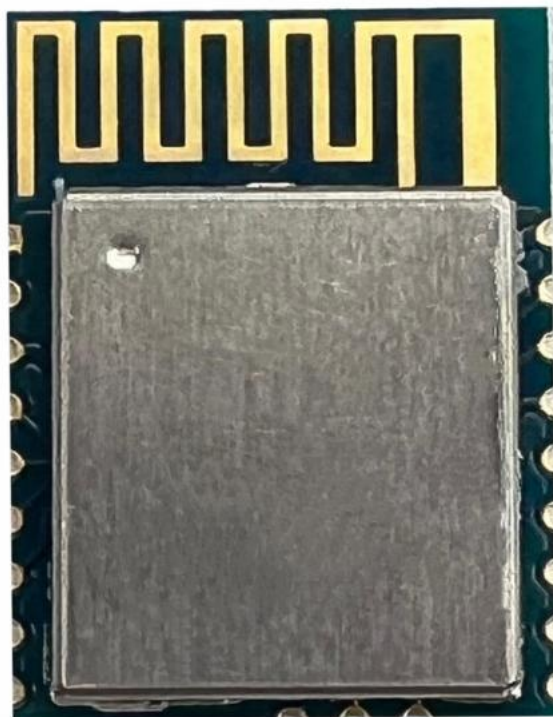
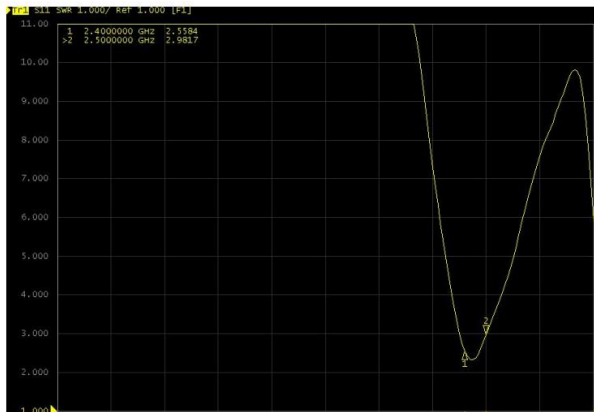


图1-1: WLT8258模块

2、 Return loss, VSWR



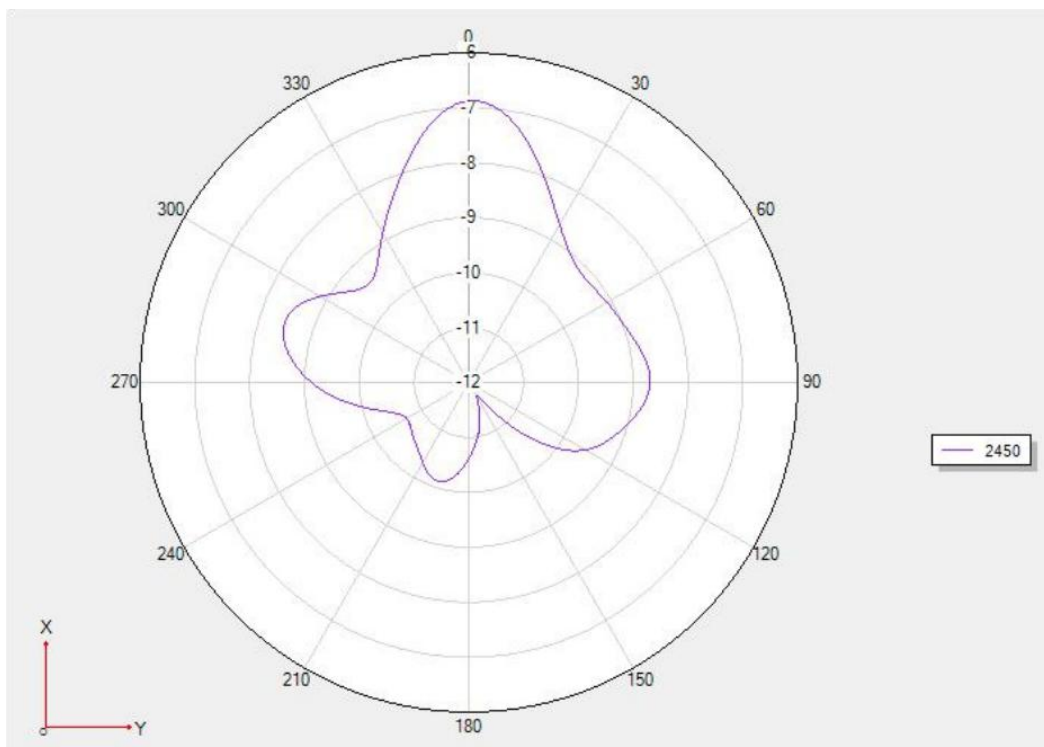
Return loss

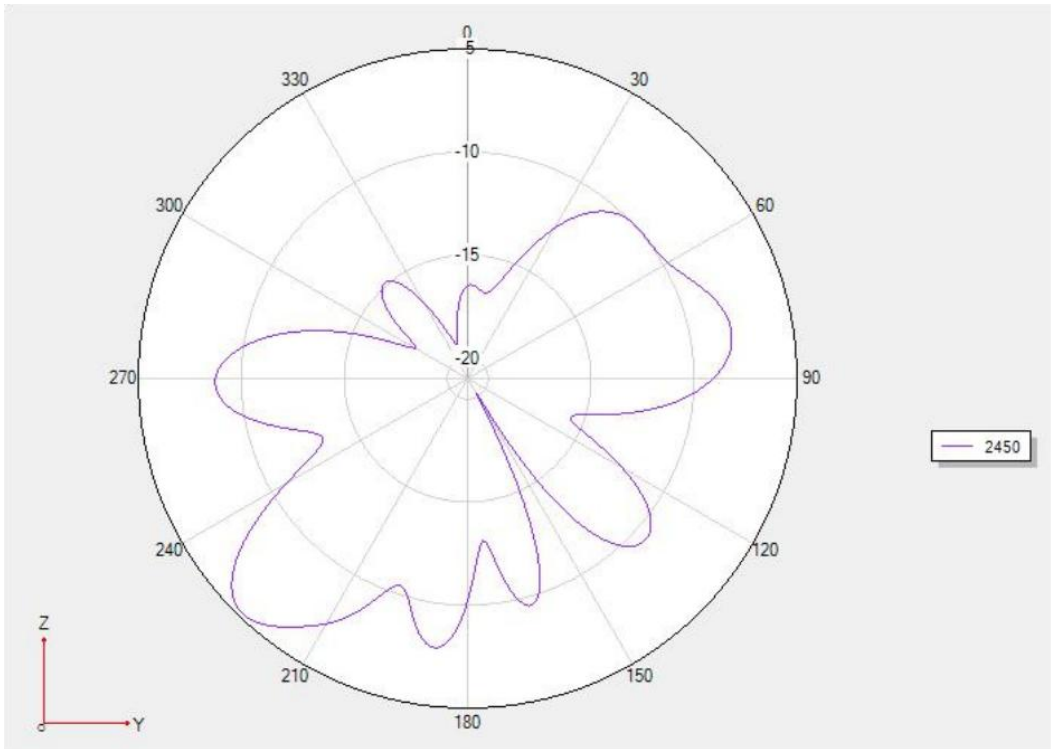
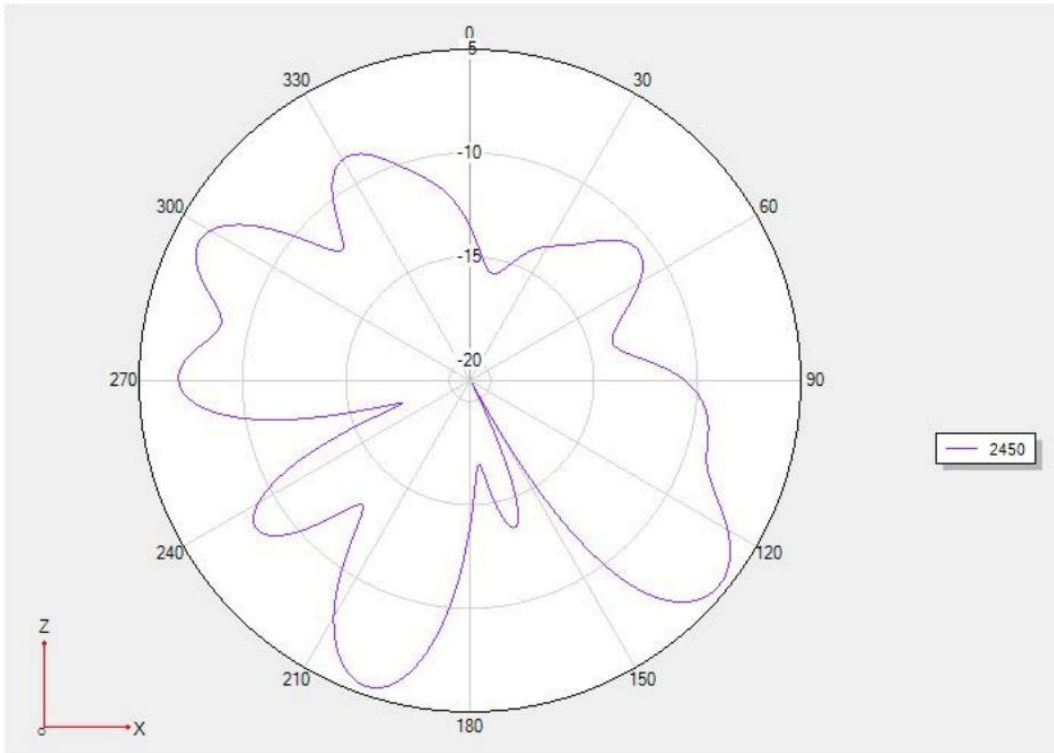


VSWR

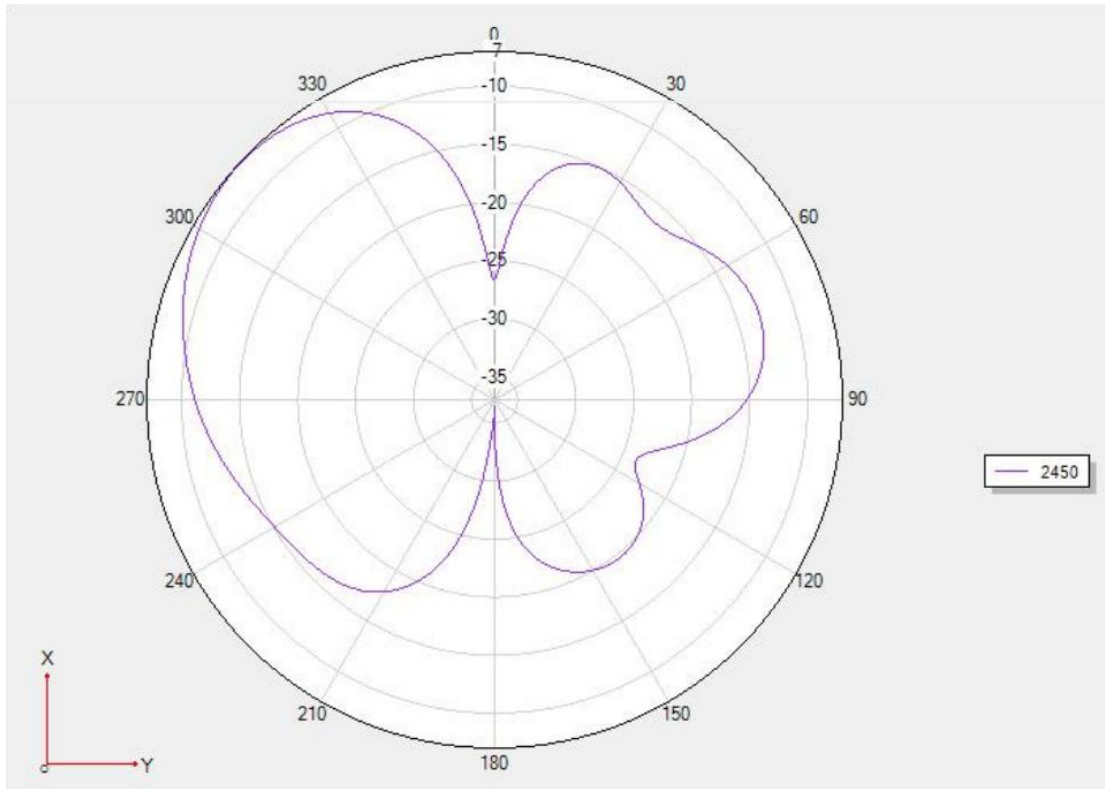
3、 Direction and gain diagram

Etheta

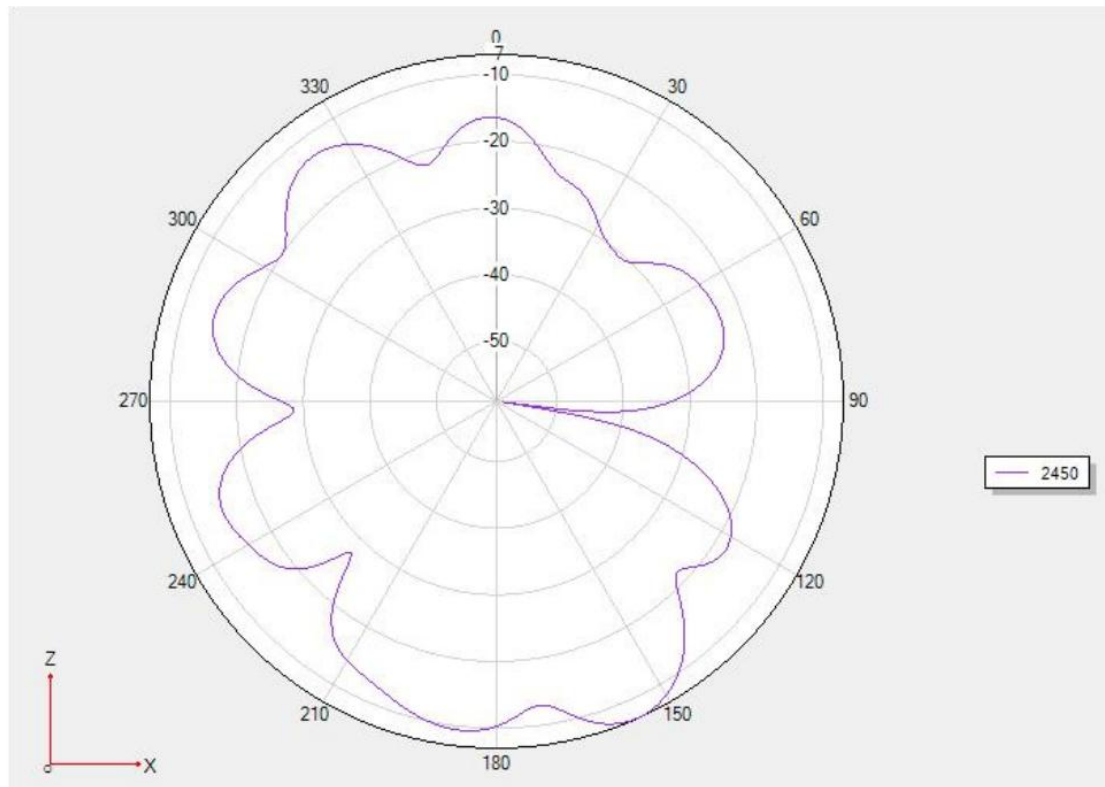




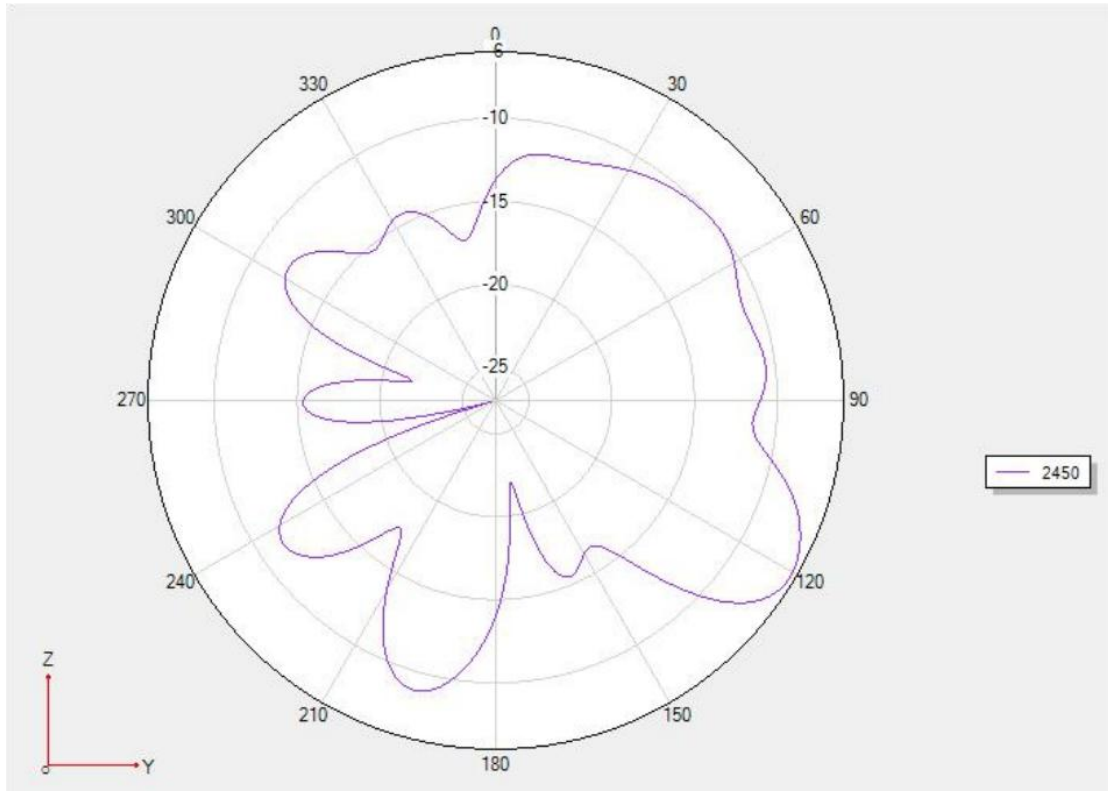
Ephi



增益: -5.1dBi



增益: -4.4dBi



4、 The table of Antenna gain

Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
2400	-8.49	14.16	-2.92
2405	-8.41	14.42	-2.99
2410	-8.35	14.62	-3.12
2415	-8.28	14.86	-2.67
2420	-8.32	14.72	-3.11
2425	-8.25	14.96	-2.75
2430	-8.1	15.49	-2.67
2435	-8.23	15.03	-3.14
2440	-8.18	15.21	-2.19
2445	-8.01	15.81	-2.44
2450	-8.11	15.45	-2.45
2455	-8.06	15.63	-2.07
2460	-8.12	15.42	-2.78
2465	-8.22	15.07	-2.25
2470	-8	15.85	-2.36
2475	-8.25	14.96	-2.84
2480	-8.39	14.49	-2.25
2485	-8.24	15	-2.53
2490	-8.44	14.32	-2.93
2495	-8.48	14.19	-2.97
2500	-8.56	13.93	-3.2

5、 Antenna information

Model: CBT-RBT11

Manufacturer: Shenzhen Tianditong Electronics Co. Ltd.

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