



WLT6200 板载天线规格书

WLT6200 Onboard Antenna Specification

V1.2

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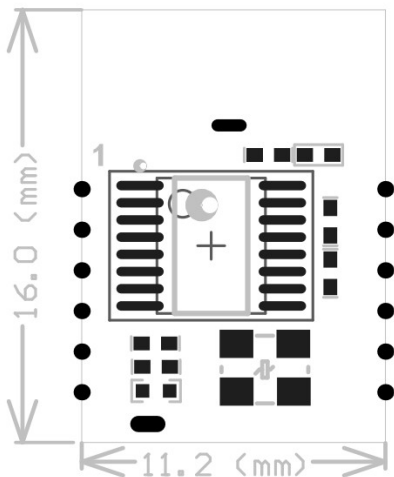
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1. 概述 Scope

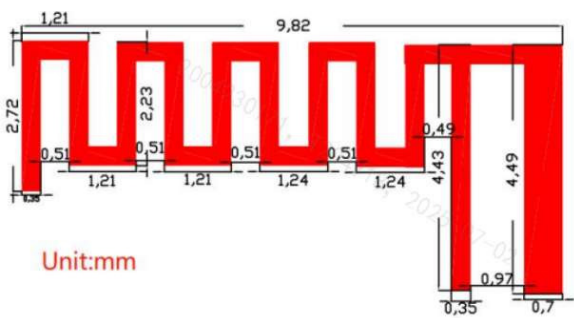
本天线规格书中描述了 WLT6200 模块板载天线的射频性能，确保当连接到 50 欧姆源时，在 2.4 GHz ISM 频段上的 VSWR 比小于 2，天线不同方向的增益图，不同频段的天线效率和增益值。

This antenna specification document describes the RF performance of the WLT6200 module onboard antenna, ensuring that when connected to a 50 ohm source, the VSWR ratio is less than 2 in the 2.4 GHz ISM frequency band, and the gain maps of the antenna in different directions, as well as the antenna efficiency and gain values in different frequency bands.



WLT6200 尺寸图

WLT6200 Dimension



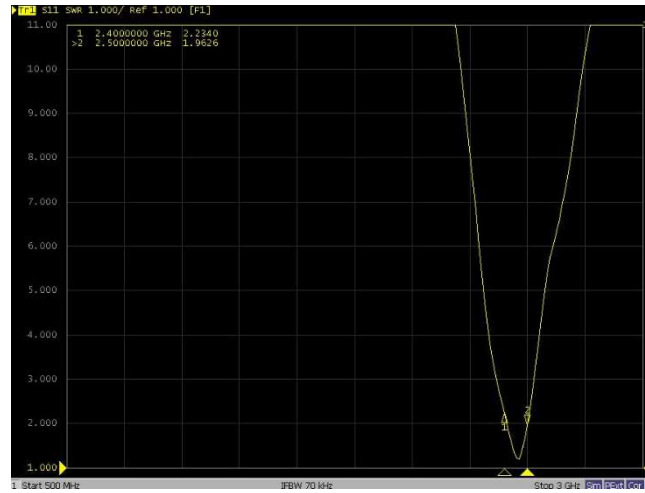
板载天线尺寸图

On Board Ant Dimension

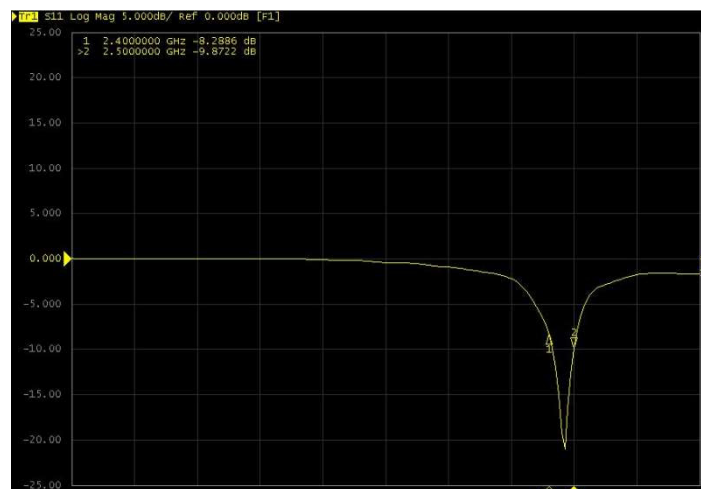
Design Specifications	Typical	Units
Antenna type	PCB antenna	
Working Frequency	2400~2500	MHz
Gain(max)	-1.42	dBi
Antenna efficiency	30~50	%
VSWR	<1.8	
Radiation pattern	Omnidirectional	
Impedance	50	ohm
Overall dimensions	9.82*4.49	mm
Weight	No requirement	
Operation Temp	-40~85	°C
Storing Temp	-40~85	°C

Antenna Parameters

2. Return loss、VSWR



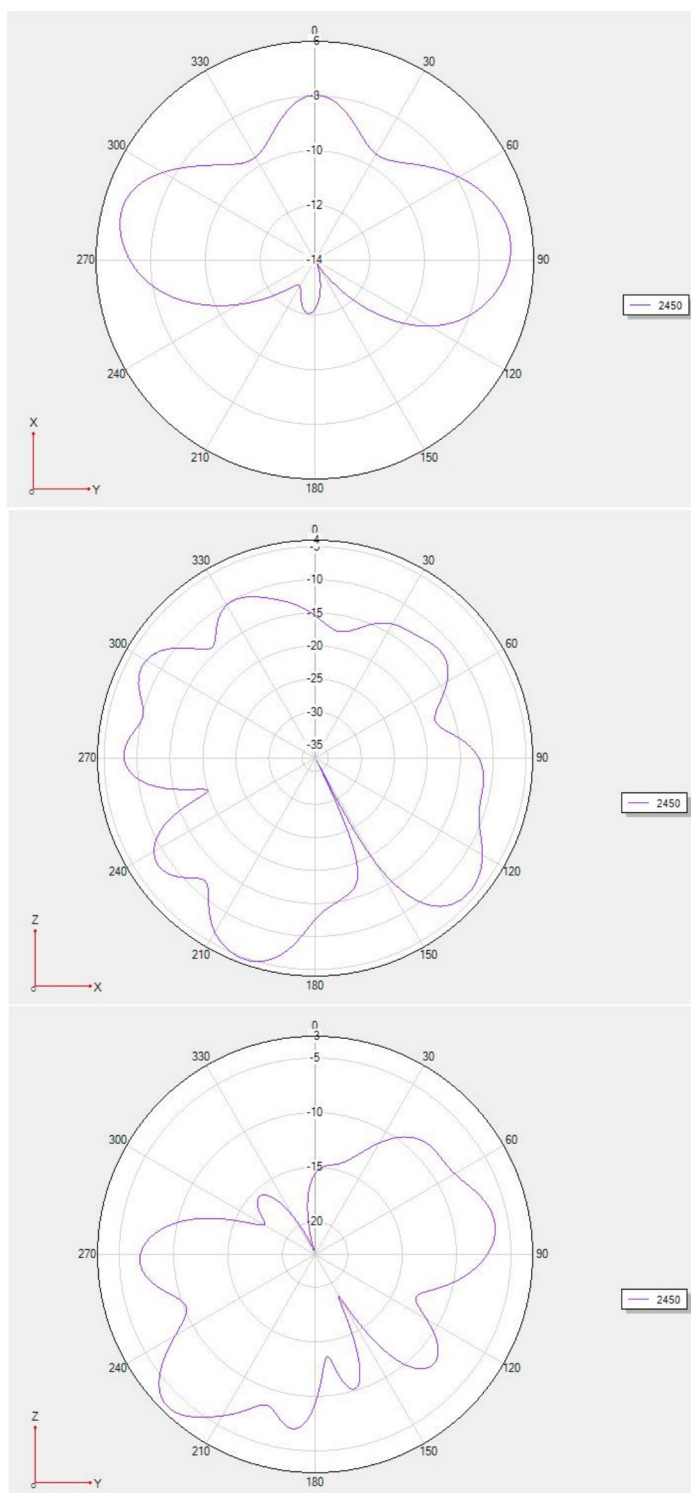
Return loss



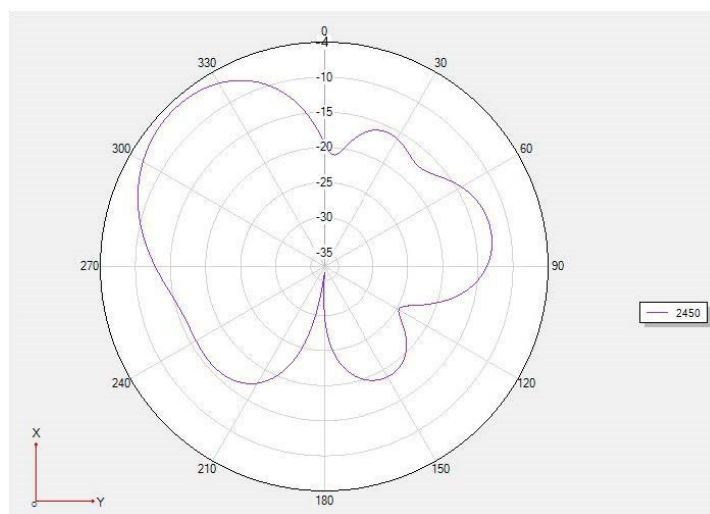
VSWR

3. 方向和增益图 Radiation Pattern&Gain

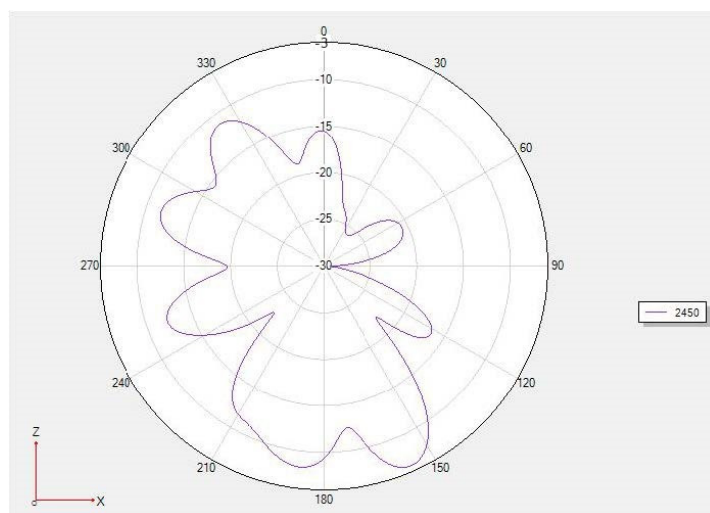
垂直极化 Etheta



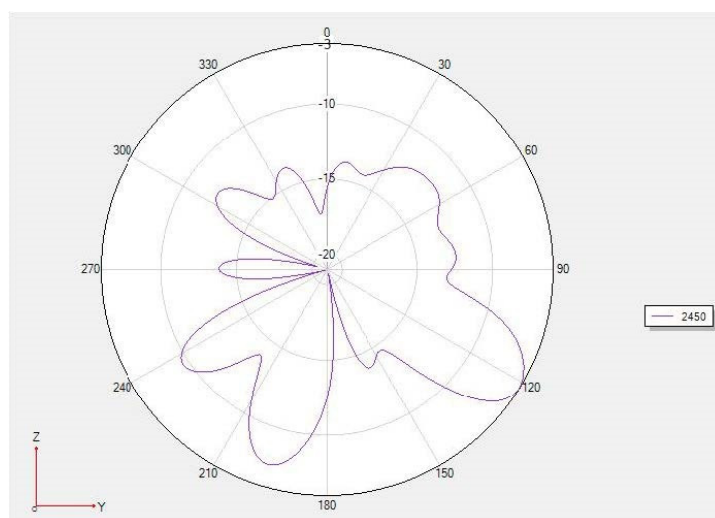
水平极化 Ephi



Gain: -4.2dBi



Gain: -3.6dBi



Gain: -3.0dBi

4. 天线增益表 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	-3.0
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