

承 认 书

SPECIFICATION FOR APPROVAL

名称Name: B T 2.4GHz (B T 2.4GHz antenna)

项目号ItemNo: PCB (PCB onboard antenna)

用户名Customer name: 深圳市欣华天科技有限公司

Company stamp:

图纸 drawing			客户确认 Customer approve
制作MADE	审核CHECKED	核准APPROVED	
QIU	李建安	刘富平	
日期DATE: 2024.5.20			日期DATE

1 规格 Specification

报告主要提供BT01-V1.0 天线的各项电性能参数的测试。
The report mainly provides the test of various electrical performance parameters of BT01-V1.0 antenna.

天线: BT 2.4/GHz板载天线(如下图1所示)
Antenna: BT 2.4/GHz onboard antenna (as shown in Figure 1 below)

图1 PCB 板载天线外观图
Figure 1 PCB onboard antenna appearance

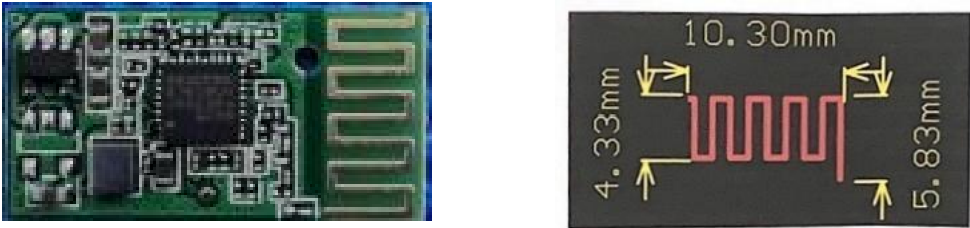


图2 BT 驻波比/SMITH图
Figure 2 BT standing wave ratio /SMITH diagram



图6 BT 驻波比
Figure 6 BT standing wave ratio

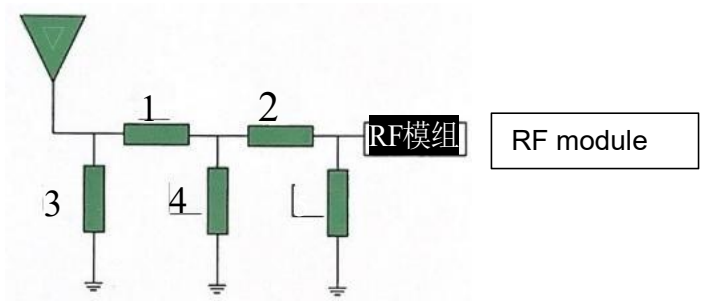
频率 Frequency (MHz)	2400	2500			
V SWR	1.1	1.7			

2. 电器性能Electrical performance

2.1 BT 天线的匹配电路 BT Antenna matching circuit

此项目匹配电路由客户提供。

(The matching circuit for this project is provided by the customer.)

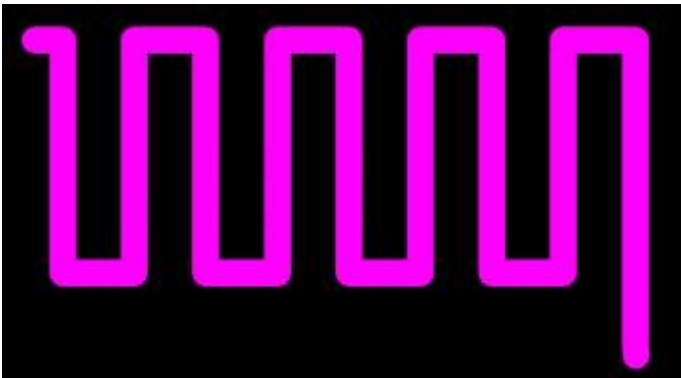


元件编号 Component number	1	2	3	4	5
BT最佳 BT optimum	0R	OR	1.2PF	NC	NC
线路阻抗 Line impedance	50欧姆匹配 50 ohms match				

PCB Antenna

Applications

❖ 2.4GHz RF, Bluetooth



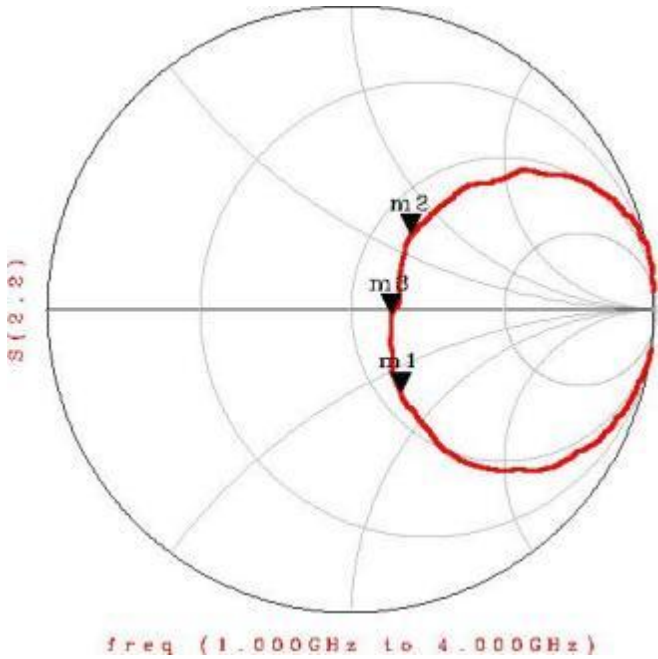
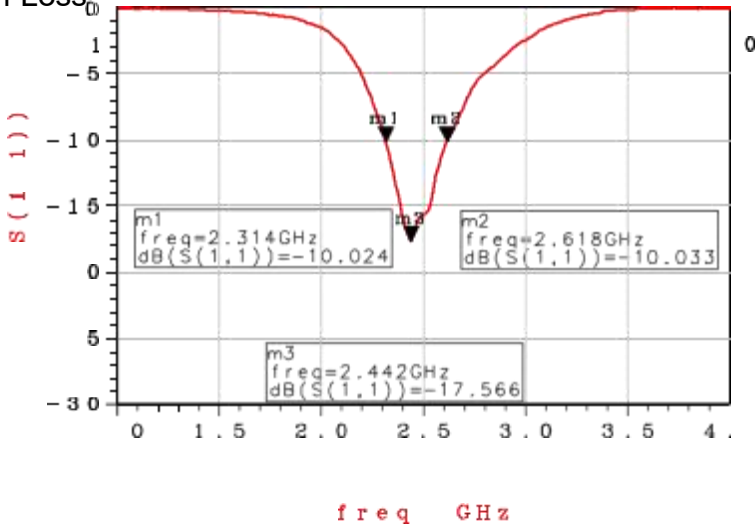
Specifications

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Part Number	Operating Frequency (MHz)	Peak Gain (dBi typ.)	Average Gain (dBi typ.)	VSWR	Impedance
Bluetooth5.0	2400~2500	2.0 (XZ-V)	0.5 (XZ-V)	2 max.	50 Ω

Typical Electrical Characteristics (T=25°C)

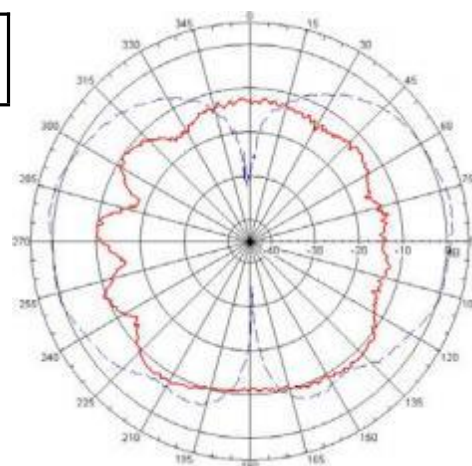
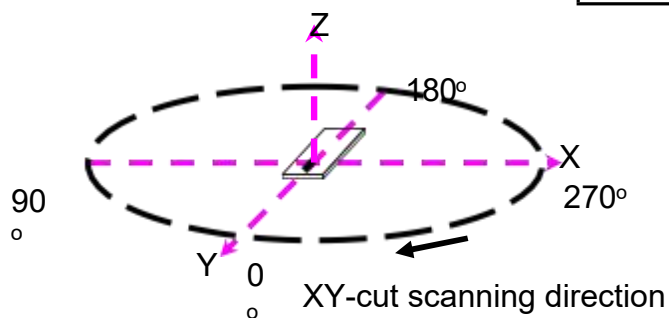
❖ Return Loss



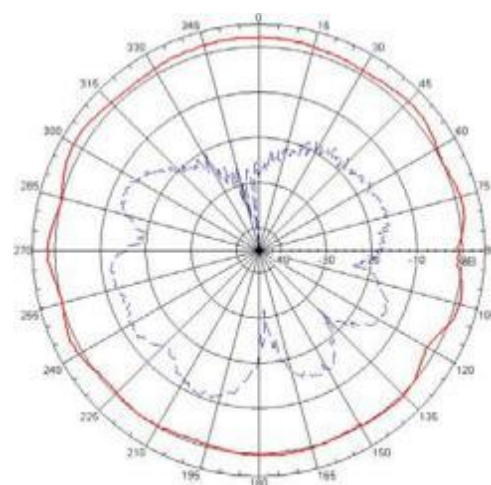
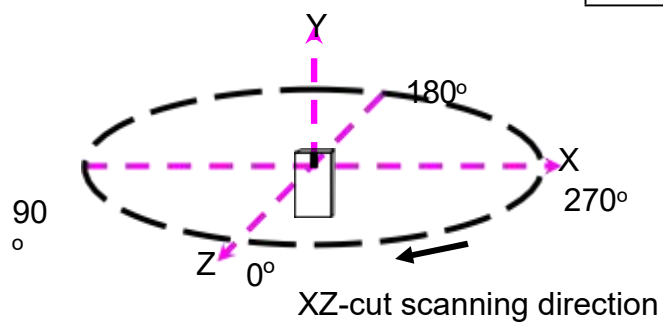
❖ Radiation Patterns

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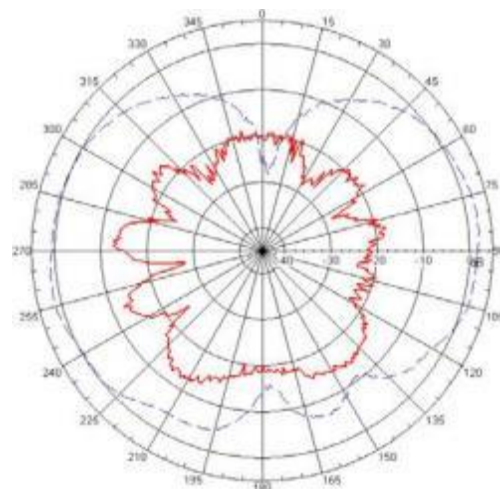
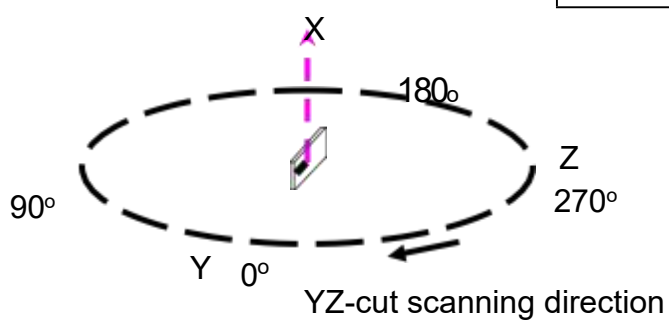
XY-V/XY-H



XZ-V/XZ-H



YZ-V/YZ-H



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