
产品规格书

PRODUCT SPECIFICATION

Customer:

Customer's part number:

Product description: Internal 2.4-5.825G wifi Antenna

Uni Link's part number: *****

Issue Date: 2022-11-18

Note: 2.4-2.5 ,5.15-5.825GHz

Application and Features

Applications :

- 1: 2.4 -5.825GHz
- 2: Public wireless hot spot
- 3: Wireless wifi system

Features :

- 1: Weight is light
- 2: Installed for vertical or horizontal polarization
- 3: RoHS compliant

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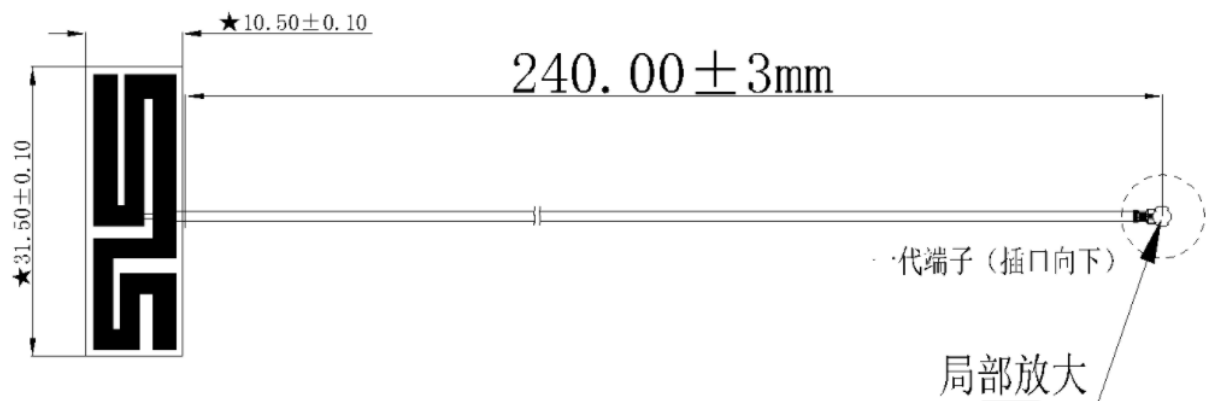
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II、概述（OVERVIEW）

This internal 2.4GHz Antenna works on WiFi, ZigBee, Bluetooth and ISM band. This antenna has been designed with a specific characteristic of having a ground coupling effect in between the antenna and the device's board, suitable for those devices where there is no clearance in between the enclosure and the board, keeping the antenna performance. The Antenna can be placed above or below of the device's board, but leaving the radiated elements of the antenna free of metal. This design can work on different thickness and plastic materials. We have selected a piece of ABS plastic with 1.5 mm of thickness for testing.

II、天线特性（ANTENNA CHARACTERISTICS）

电性能指标 Electrical Specifications	
频率范围 Frequency Range (MHz)	Bluetooth :2401-2480 WIFI : 2412-5.825 Zigbee: 2410-2480-5.15-5.825 2.4Ghz ISM :2400-2483.5-5.825
频带宽度 Bandwidth (MHz)	83.5
输入阻抗 Input Impedence (Ω)	50
电压驻波比 V.S.W.R	≤1.5
增益 Gain (dBi)	2.0
最大输入功率 Max Input Power (W)	3
机械指标 Mechanical Specifications	
天线长度 Antenna Length (mm)	31.5*10.5
电缆长度 Cable (mm)	240
连接器型号 Connect Type	1.13 i-pex
固定方式 Mounting	3M STICKER
外壳颜色 Radome Color	BLACK
重量 Weight (g)	2

III、测试 (TEST)

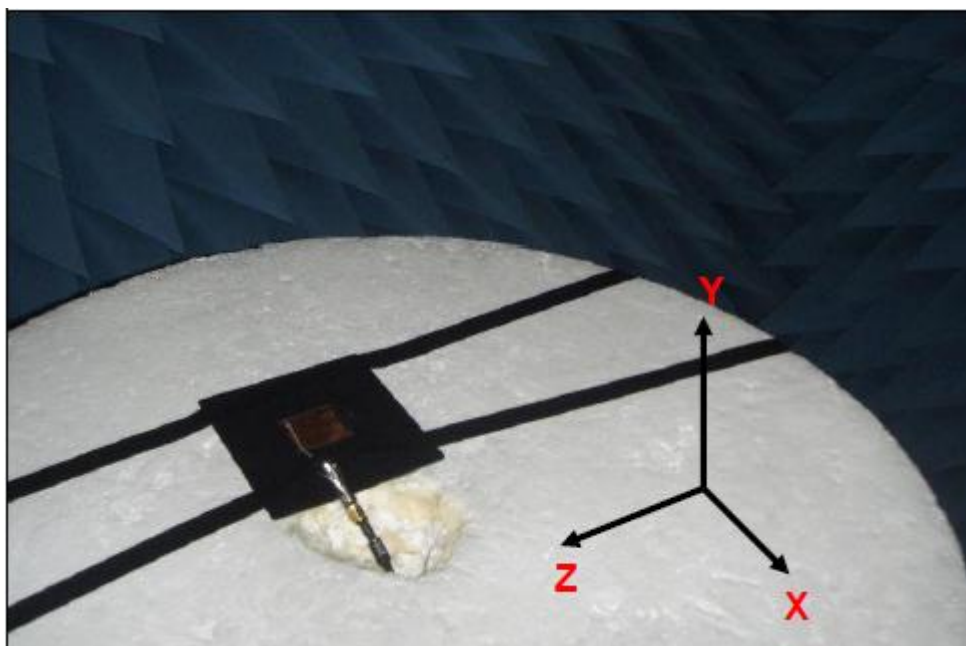


Figure 1 : TEST SYSTEM

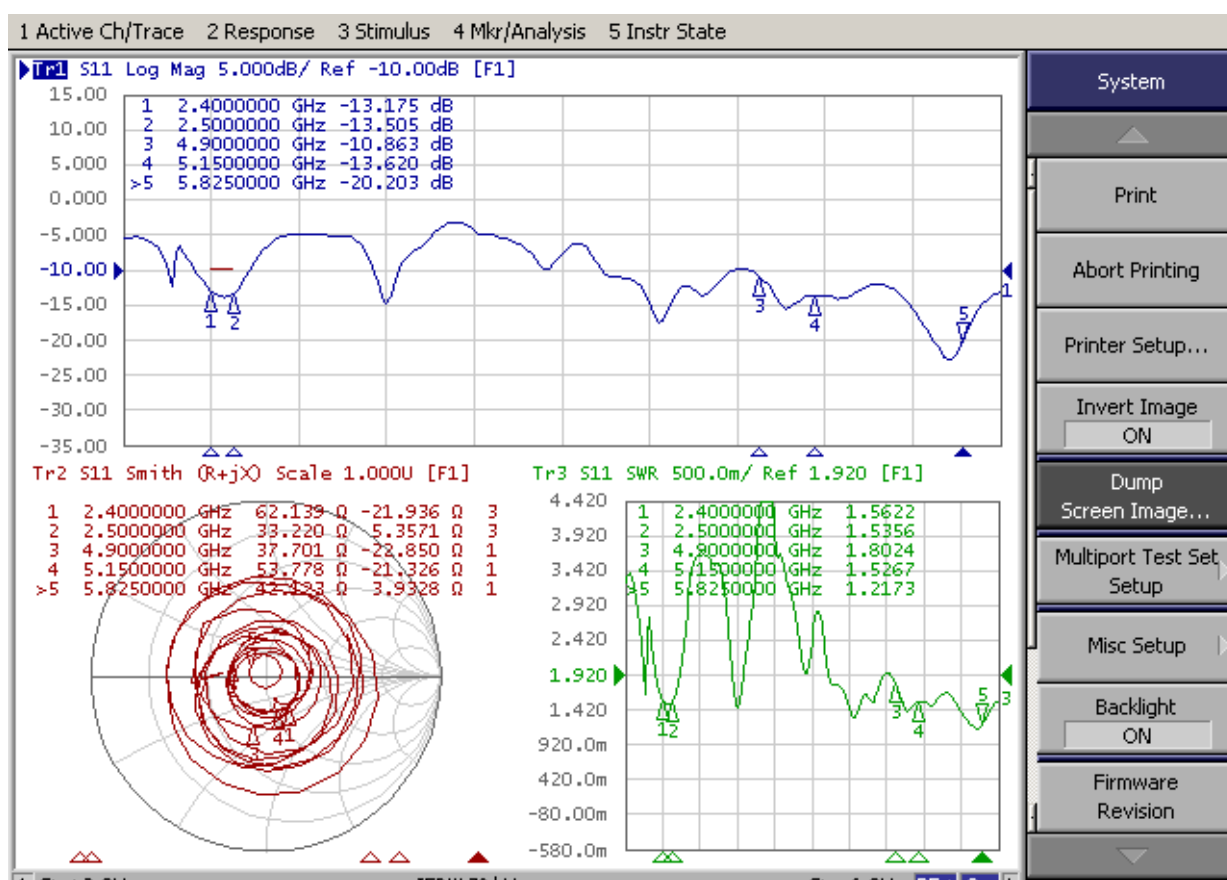


Figure 2 : TEST SWR

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F . 辐射方向数据 (RADIATION PATTERN DATA)

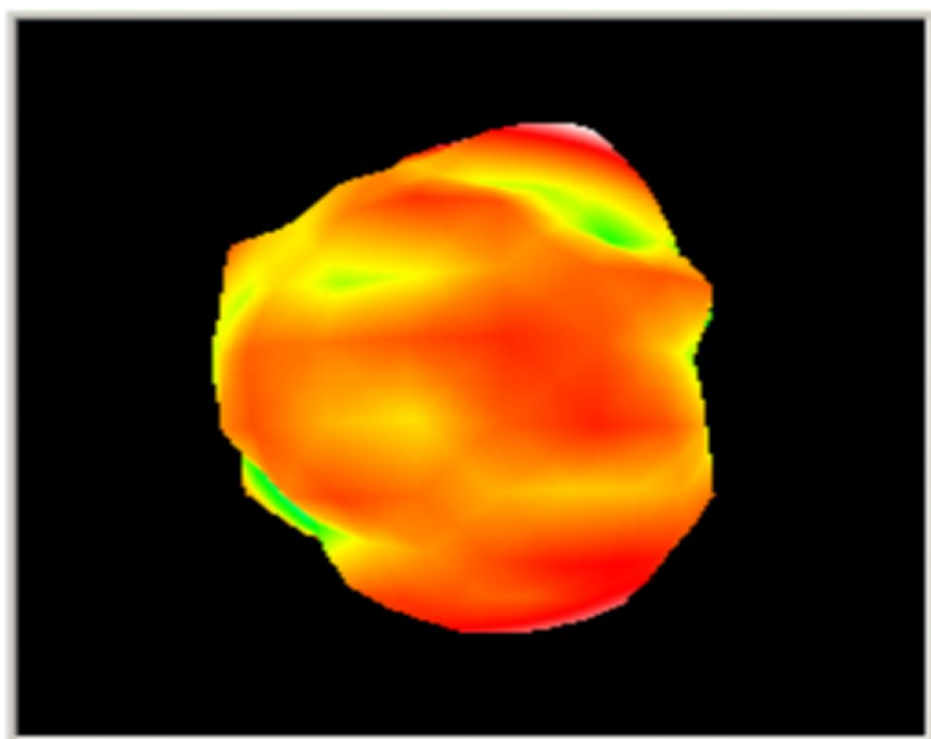


Figure 8. Radiation pattern data 3D for Antenna

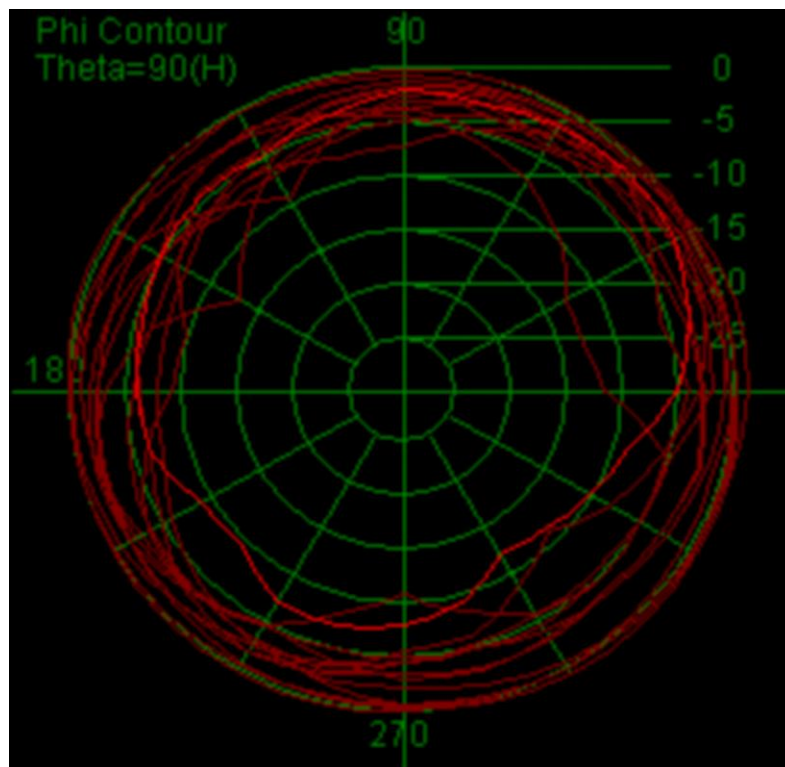


Figure 9. Radiation pattern data H for Antenna

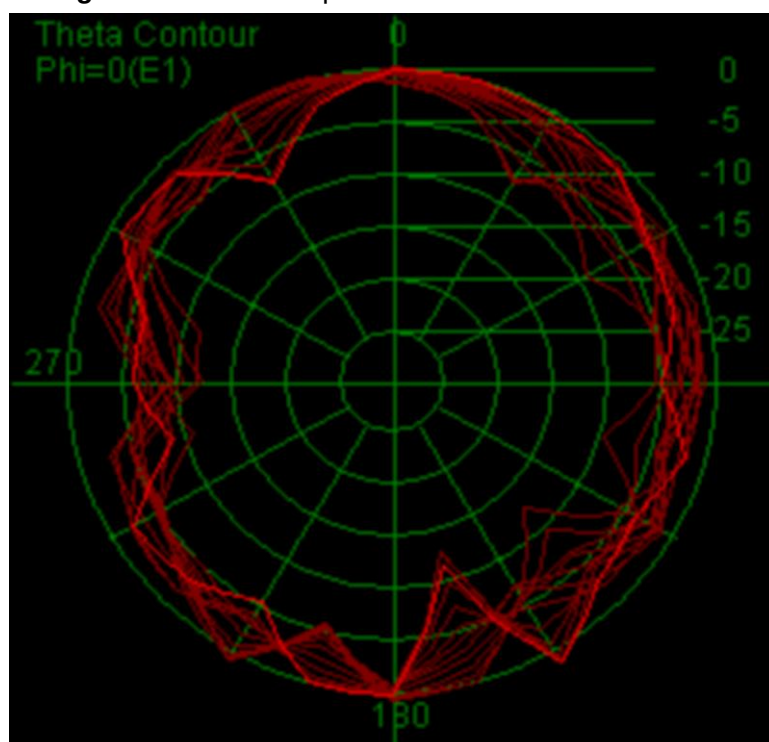


Figure 10. Radiation pattern data E for Antenna

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V、工程图 (DRAWING)

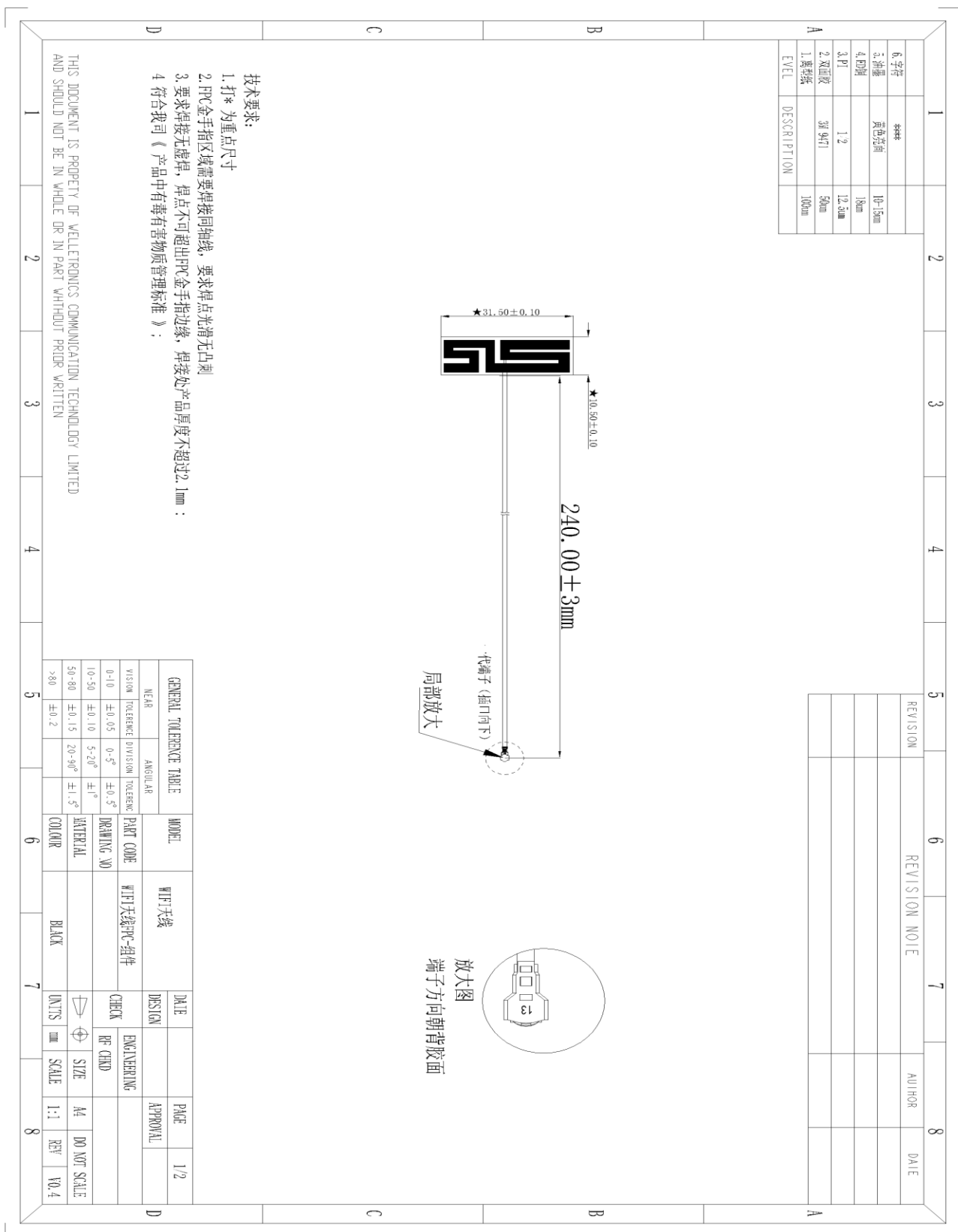


Figure 11. Drawing for Antenna

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