Tengxiang Technology. Inc

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承 認 書

X X X料號

SOREDE P/N PCB12276

品 名 / 規 格

DESCRIPTION 2.4G 天线

X X X送樣編號

送样日期:

MANUFACTURER/制造商			
APPROVED BY 核 准	**QC DEPT** 品 管	**CHECKED BY** 审 核	**TESTED BY** 检 测

客户： 深圳市视壮科技有限公司

CUSTOMER P/N 视壮料号：

CUSTOMER 视壮名称：

DESCRIPTION 品名/规格：

CUSTOMER APPROVAL/客户审核			
APPROVED BY 核准	**QC DEPT** 品管	**CHECKED BY** 审核	**TESTED BY** 检 测

Product Number:
Product Name: Onboard Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	**2400-2500MHz**
S.W.R.驻波比	**<= 2.0**
Antenna Gain 增益	**1 dBi**
Polarization 极化方式	**Linear**
Impedance 阻抗	**50 Ohm**
B. Material & Mechanical Characteristics	
Material of Radiator	**Cu**
Material of Plastic 塑胶材质	**/**
Cable Type 线材规格	**/**
Connector Type 连接器规格	**/**
Connector Pull Test	**/**
Connector Torque Test	**/**
C. Environmental	
Operation Temperature 存储温度	**- 40 ˚C ~ + 80 ˚C**
Storage Temperature 存储温度	**- 40 ˚C ~ + 80˚C**

2. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	**S.W.R.**	**Set DUT on Network Analyzer; make individual calibration to test**	**Directive DUT specification**
C2	**Antenna Gain**	**Set DUT on Antenna Chamber; make individual calibration to test**	**Directive DUT specification**
M1	**Vibration**	**MIL-STD-202G, 201A** **Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz** **3 directions; 2 hours for each direction**	**1. No Visual Damage** **2. Frequency Tol.<= 5%**

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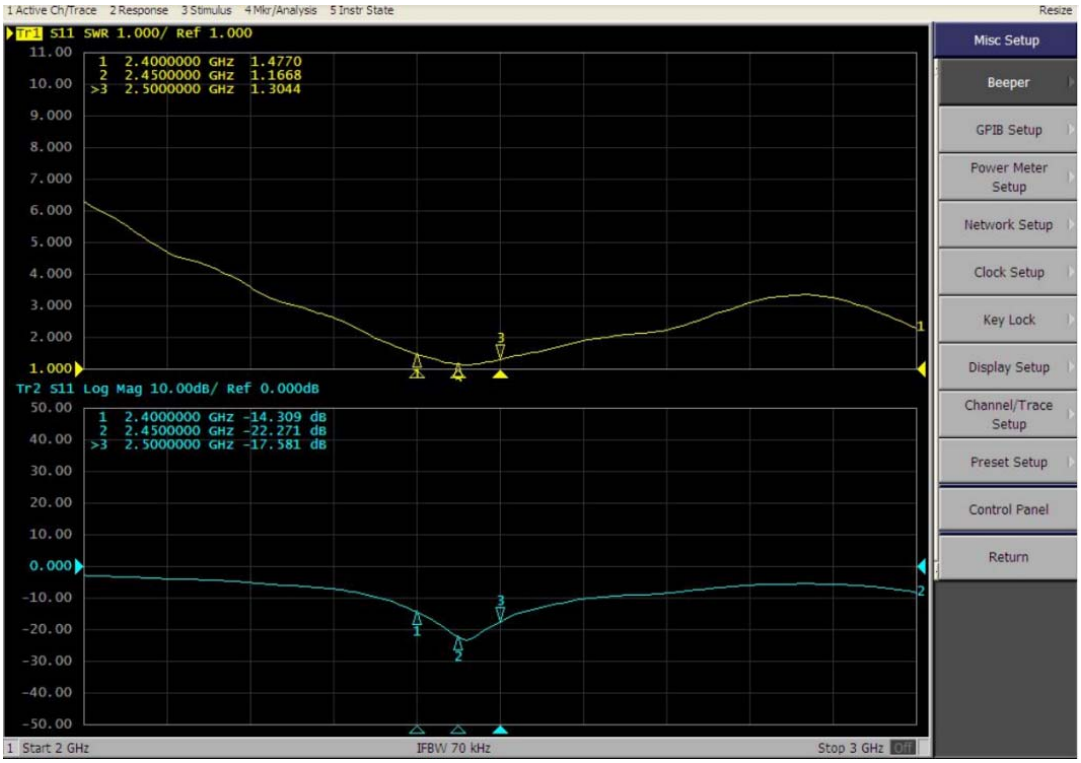
M2	Random Drop	Height: 1.5 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	MIL-STD-202G, 210F, cond. A Solder iron: 350±10°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	MIL-STD-202G, 211A, cond. E Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	MIL-STD-202G, 101E, cond. B Temp: 405°C; RH: >= 95%; NaCl solution: >= 5%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	MIL-STD-202G, 103B, cond. B Temp: 40°C; RH: >= 95%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	MIL-STD-202G, 108A, cond. A Temp: 80°C; Time: 96 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2020/863/EU

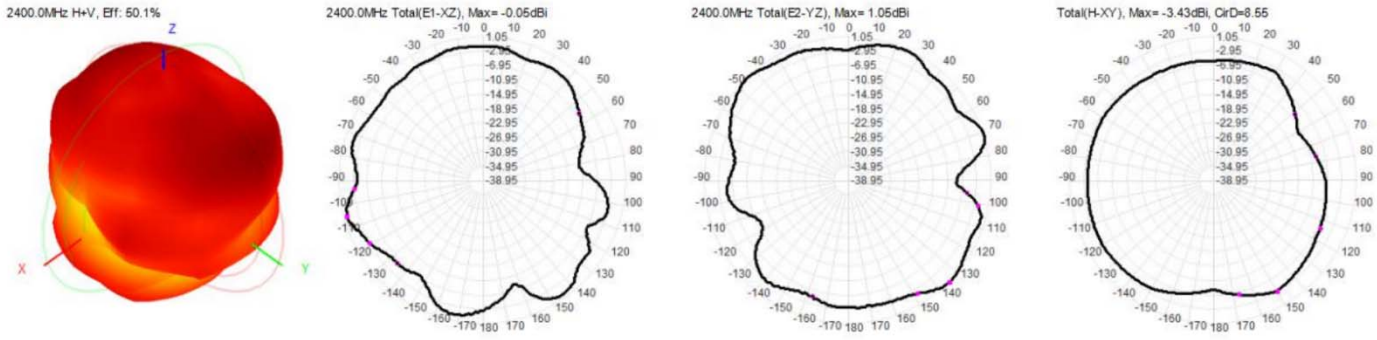
3. Antenna - S Parameter Test Data

Product Number:
Product Name: Onboard Antenna



4. Antenna - Radiation Pattern Test Data

Frequency ID	1	6	11
Frequerncy (MHz)	2400	2450	2500
Gain (dBi)	1dBi	0.84dBi	0.98dBi
Efficiency (%)	50.08	50.54	47.83



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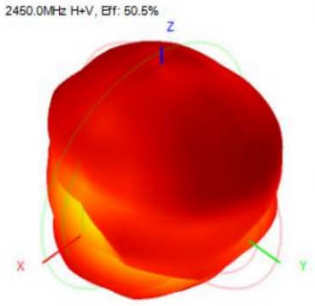
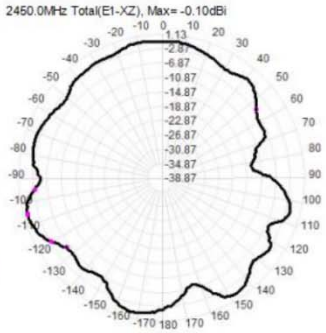
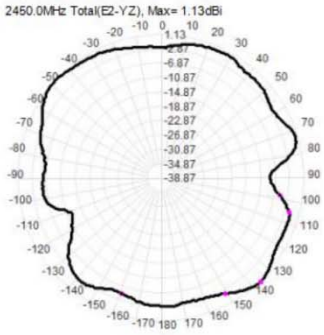
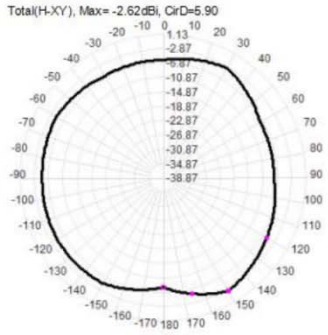
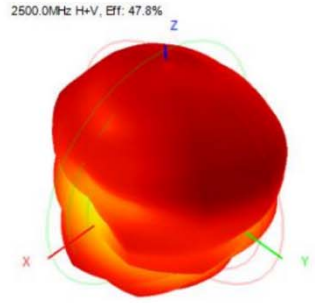
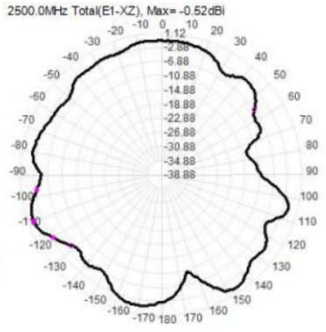


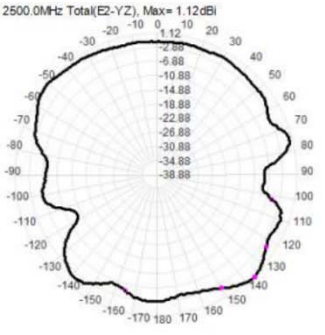


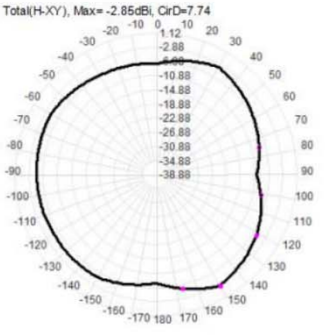




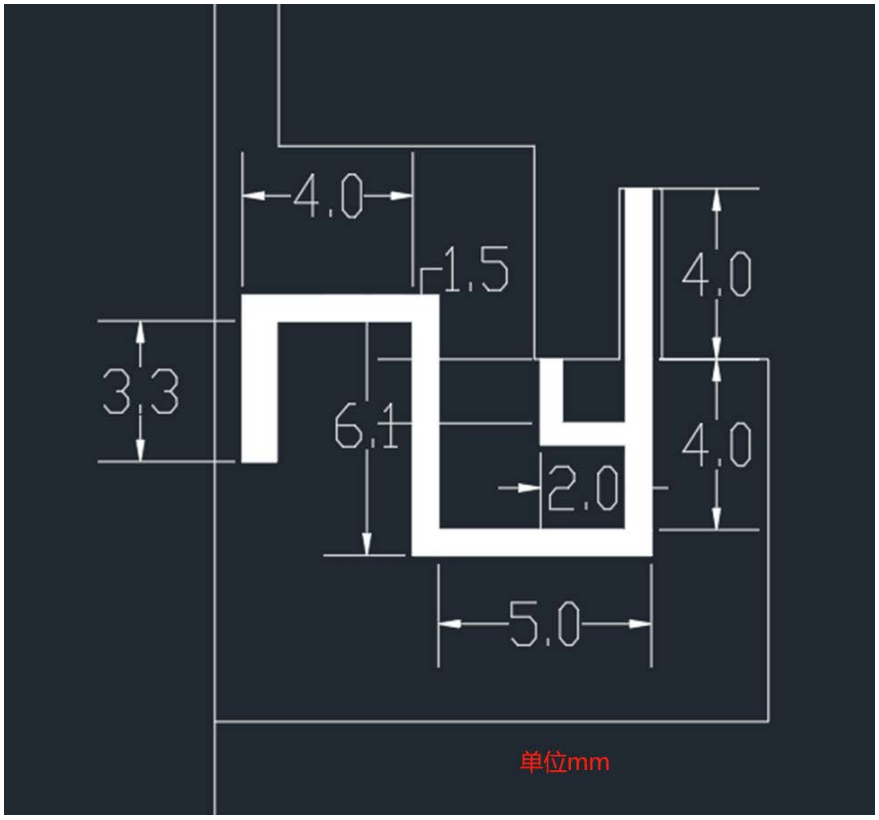








5. Mechanical Drawing (See attached files)


4.0
1.5
4.0
3.3
6.1
4.0
2.0
5.0
单位mm