



产品规格书

Product Specification

客户名称 Customer Name: _____

项目名称 Project Name: _____

客户料号 Customer P/N: _____

规格描述 Product Spec: 2.4G 内置FPC天线 1.13黑色线总长65mm+1代端子

供方料号 Supplier P/N: **FP2400-113B65-IF**

版本 REV: _____ 1.0

日期 Date: _____ 2022-10-11

制作 drawing	审核 check	批准 approved
黄浩	朱齐亮	冯伟刚


客户承认 Customer Approve:

客户确认/日期

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规格表 **Specification**

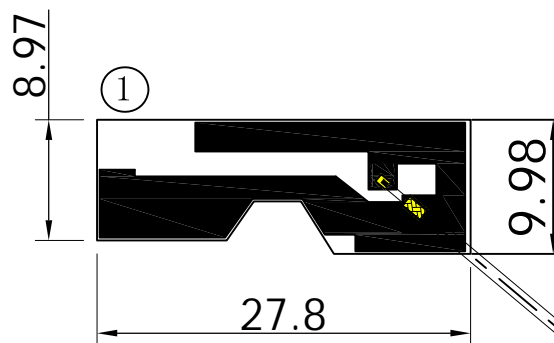
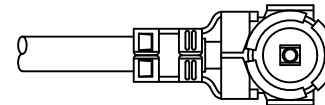
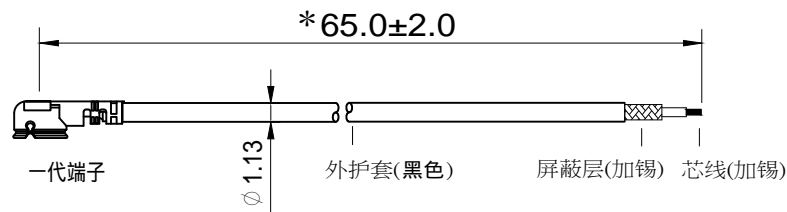
Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400~ 2500 MHz
V.S.W.R.	<= 3.0 @2400~ 2500 MHz
Peak Gain	1.0 dBi @ 2400~ 2500 MHz
Efficiency (%)	60 % @ 2400~ 2500 MHz
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	FPC
Material of Plastic	PI
Cable Type	RG-113
Connector Type	IPEX
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C
Antenna Color Storage life	< 2 year

RoHS

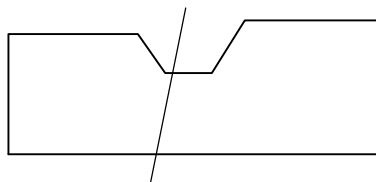
Compatible



SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



背面



技术要求:

- 打*为必测尺寸及重点尺寸，铜箔线路所有尺寸公差不得超过 ± 0.05 , 模具冲出外型尺寸公差不得超过 ± 0.1 , 未注尺寸以图形为准。
- 走线面除焊盘外其它区域表面黑色
- 可靠性测试: 盐水喷雾试验 (24H) \ 橡皮摩擦测试 \ 耐醇性测试 \ 恒温恒湿试验 \ 冷热冲击试验 \ 金手指引脚处挠折性测试。

3	CR-113	IPEX			
2	R-CB-113B	Coaxial Cable	OD1.13 L=65mm	Black	1
1	FP-2789902	FPC	PI	Black	1
No.	Part Number	Name	Material	Finish	Q'ty

东莞市昶蒙电子有限公司

TITLE: 2.4G Embedded Antenna

PART NO.: **FP2400-113B65-IF**

CUSTOMER P/N: /

APP BY	CHK BY	RF BY	DES BY	Tolerance	
LQ			DJC	X.X	± 0.5
2022-10-11			2022-10-11	X.XX	± 0.2
				X°	± 1

UNITS: mm

SCALE: 1/1

REVISION: A

產品包裝規範

PACKING CRITERION



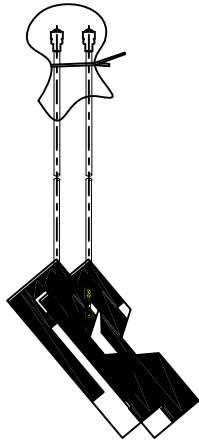
Date: 2022-10-11

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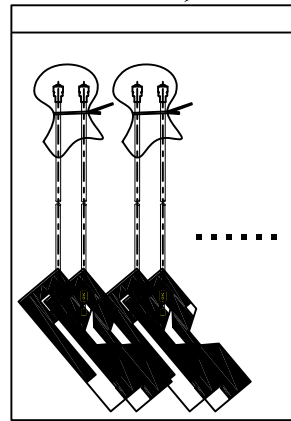
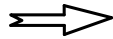
Part Number : FP2400-113B65-IF	Revision : A
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Name: 2.4G Embedded Antenna	Customer :
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1.

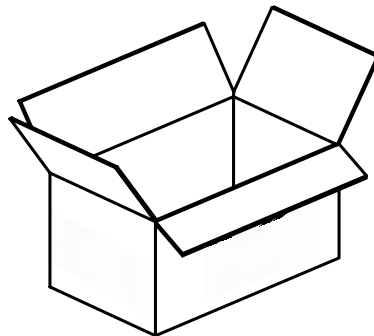


25pcs/扎

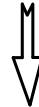


4扎 100pcs/包

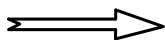
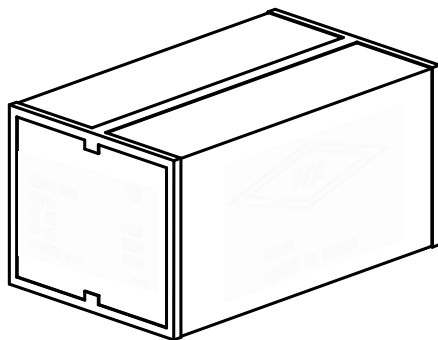
2.PACKING ◦



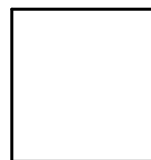
SIZE:29.0x23.0x32.5cm
8000PCS/CARTON



3. SEALING ◦



SIDE



FRONT

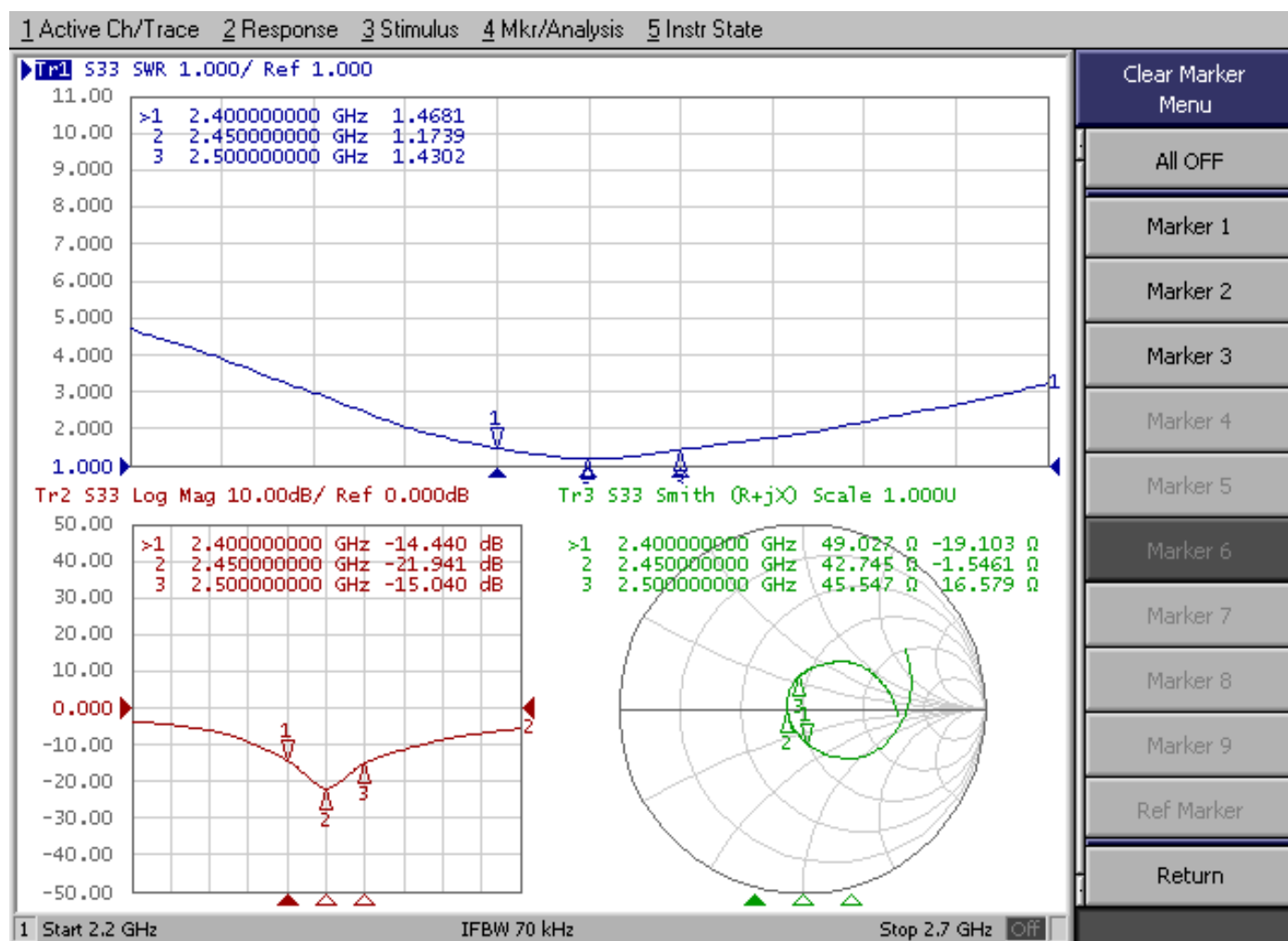


APPROVED BY : LQ

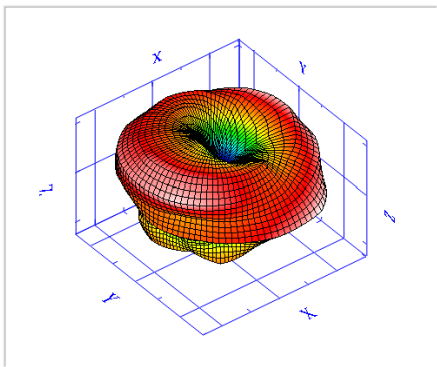
CHECKED BY : DJC

DESIGNED BY : DJC

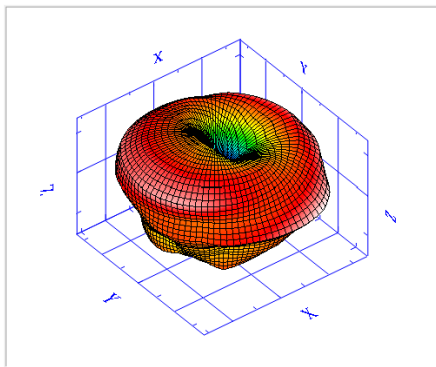
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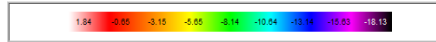
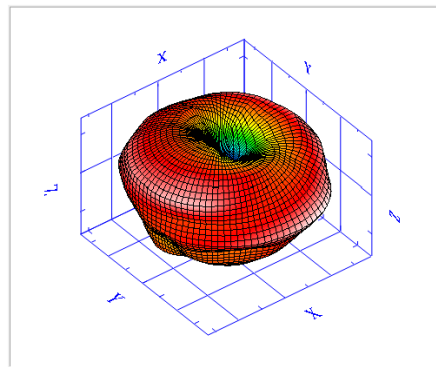
2400 MHz



2450 MHz



2500 MHz



环境与可靠性实验 Environmental and reliability experiment

Test Items 测试项目	Test Condition and Procedure 测试方法	Requirements 要求	Test equipment 试验设备
Vibration 震动	GB / T2423.48-2008 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction 振幅 1.5mm; 频率 20~80~20Hz; 3 个方向各 2H	1. No Visual Damage 2. Frequency Tol.≤5% 无明显外观不良;频率偏移≤5%	NA
Random Drop 跌落	GB / T2423.8-1995 Single: Height: 1.0 Meter; 3 directions; 1 time for each direction 单支天线, 高 1m; 3 个方向各 1 次 Packing: Height: 0.76 Meter; 1 corner, 3 edges, 6 surface 包装: 高 0.76m, 一角、三棱、六面各一次 Antenna+Machine:Height: 0.76 Meter; 1 corner, 3 edges, 6 surface.整机: 高 0.76m, 一角、三棱、六面各一次	1. No parts separated、fracture 2. Frequency Tol.≤5% 产品无脱落、断裂;频率偏移≤5%	NA
Solderability 可焊性	GB / T2423.28-2005 Temp: 260±5°C;Duration: 5 seconds 温度 260±5°C;持续 5 秒	Tin evenly on full 上锡均匀饱满	NA
Pull Test 拉力	Holding with individual specification; force applied to axis of terminal .单独定义产品端子拉力	1. Directive DUT specification 2. Frequency Tol.≤5% 符合待测物规范;频率偏移≤5%	拉力计
Torque Test 扭力	Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal 单独定义产品端子之顺时针及逆时针扭力	1. Directive DUT specification 2. Frequency Tol.≤ 5% 符合待测物规范;频率偏移≤5%	扭力计
Salt Spray 盐雾	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%;Time: 8H 温度 35°C; 湿度≥95%;盐水浓度≥5%; 测试 8H	1. No Visual Damage 2. Frequency Tol.≤5% 无明显外观不良;频率偏移≤5%	盐雾试验机
Temperature and Humidity Chamber	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: ≥ 90%; Time: 24H 温度 80°C 测试 12H 转-40°C 测试 12H; 湿	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 恢复 2H 后, 无明显外观	恒温恒湿试验机

恒温恒湿	度≥ 90%； 时间 24H	不良;频率偏移≤5%	
Thermal Shock 冷热冲击	GB / T 2423.22 - 2008 - 40°C (30 minutes) to + 80°C (30 minutes); Cycles: 24 - 40°C 测试 30 分转 80°C 测试 30 分为一个周期； 共 24 周期	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 恢复 2H 后， 无明显外观不良;频率偏移≤5%	冷热冲击试验机