

东莞市群创通信技术有限公司

Dongguan Qunchuang Communication Technology Co., Ltd.

Company Address: Room 303, Building 1, No. 1 Shangjiao Puxin Road,

Chang'an Town, Dongguan City, Guangdong Province

承认书

Customer:

客户名称

Customer P/N:

客户料号

QC P/N:

群创料号

AN2450-FPC419098-2

Description :

规格描述

2.4G/5G FPC天线 AN2450-FPC419098-2

QC Checked By:	Customer Approved By:
	

东莞市群创通信技术有限公司

Product Number:AN2450-FPC419098-2
Product Name: Antenna

Index:

- 1. Specification (规格)
- 2. Characteristics and Reliability Test (产品特性和可靠性测试标准)
- 3. Antenna - S Parameter Test Data (样品测试数据)
- 4. Antenna - Radiation Pattern Test Data (辐射模式测试数据)

Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2024.6.7	初版	

东莞市群创通信技术有限公司

Product Number:AN2450-FPC419098-2

Product Name: Antenna

1. Specification

Sample Photo	
A. Electrical Characteristics	
Frequency频率	2400-2500 MHz/5150-5850MHz
S.W.R.驻波比	≤ 2.0
Antenna Gain增益	1.81dBi /4.5dBi
Polarization极化方式	Linear
Impedance阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type线材规格	OD1.13mm ,Black
Connector Type连接器规格	I-PEX
C. Environmental	
Storage Temperature 存储温度	- 40°C ~ +80 °C
Operation Temperature 工作温度	- 40°C ~ +80 °C

东莞市群创通信技术有限公司

Product Number:AN2450-FPC419098-2

Product Name: Antenna

2. Characteristics and Reliability Test

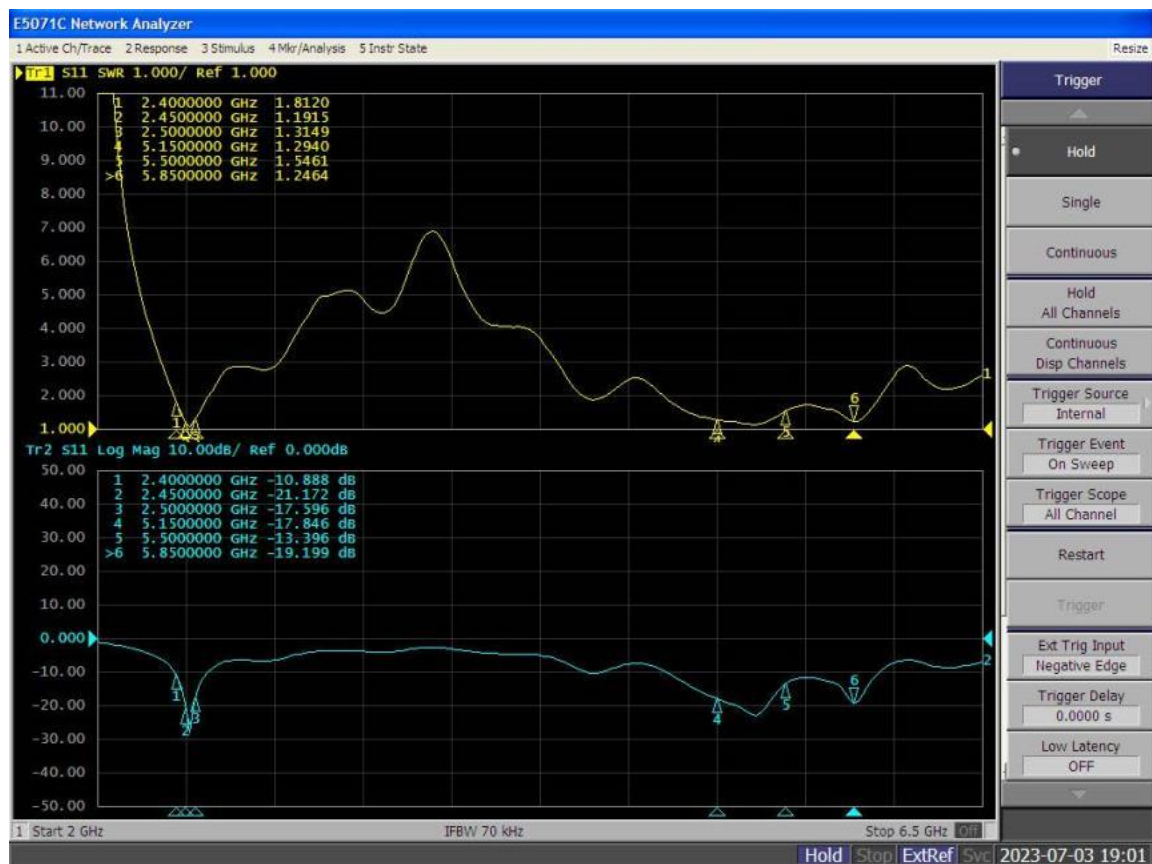
Test Items测试项目		Test Condition and Procedure测试方法	Requirements要求	Result结果
1	V.S.W.R. 电压驻波比	Set DUT on Network Analyzer; make individual calibration to test设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
2	Insertion Loss插入损失	Set DUT on Network Analyzer; make individual calibration to test设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
3	Antenna Gain 天线增益	Set DUT on Antenna Chamber; make individual calibration to test设置天线暗室参数进行测试	Directive DUT specification 符合待测物规范	PASS
4	Solderability 可焊性	GB / T2423.28-2005 Temp: $260 \pm 5^{\circ}\text{C}$; Duration: 5 seconds温度 $260 \pm 5^{\circ}\text{C}$;持续 5秒	Tin evenly on full 上锡均匀饱满	PASS
5	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. $\leq 5\%$ 符合待测物规范;频率偏移 $\leq 5\%$	PASS
6	Dimension 尺寸	Inspection of dimension, color, material, package, surface process.检查尺寸,颜色,材料,包装,表面处理	Directive DUT specification 符合待测物规范	PASS
7	Salt Spray盐雾	GB / T 2423.17-2008 Temp: 35°C ; RH: $\geq 95\%$; NaCl solution: $\geq 5\%$; Time: 24H 温度 35°C ; 湿度 $\geq 95\%$; 盐水浓度 $\geq 5\%$; 测试 24H	1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 无明显外观不良;频率偏移 $\leq 5\%$	PASS
8	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321测试流程 符合 RoHS 2015/863/EU标准	Directive RoHS 2015/863/EU	PASS

东莞市群创通信技术有限公司

Product Number:AN2450-FPC419098-2

Product Name: Antenna

3. Antenna - S Parameter Test Data



4. Antenna - Radiation Pattern Test Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Efficiency (dBi)	-4.36	-4.06	-3.86	-3.90	-3.64	-3.35	-3.53	-3.30	-3.51	-3.39	-3.45	-2.35	-2.17	-2.10	-2.49	-2.06	-2.03	-1.95	-2.48	-1.88	-1.88	-1.83	-2.57	-2.01	-1.95	-2.15
Gain (dBi)	1.03	1.30	1.66	1.81	1.04	1.15	1.25	1.14	1.06	1.26	1.29	4.27	4.50	4.50	4.08	4.47	4.34	4.34	3.67	4.29	4.27	4.19	3.41	4.08	4.18	4.26
Efficiency (%)	50.61	51.25	51.13	50.74	53.24	56.22	54.37	56.75	54.55	55.77	55.20	58.25	60.64	61.62	56.39	62.24	62.69	63.88	56.43	64.79	64.85	65.66	55.39	63.02	63.76	60.96

东莞市群创通信技术有限公司

Product Number:AN2450-FPC419098-2

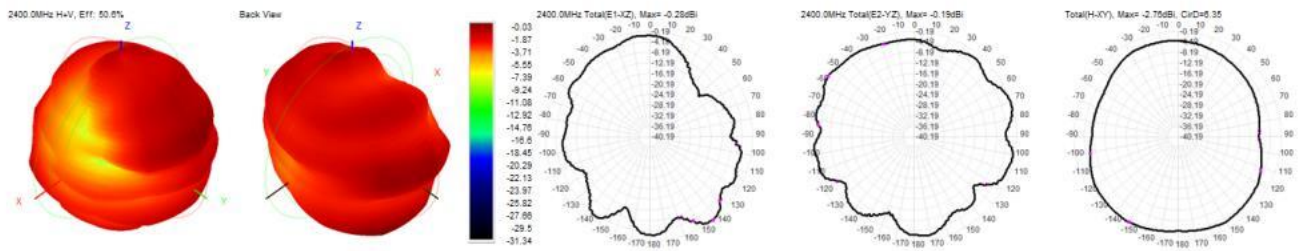
Product Name: Antenna

XZ

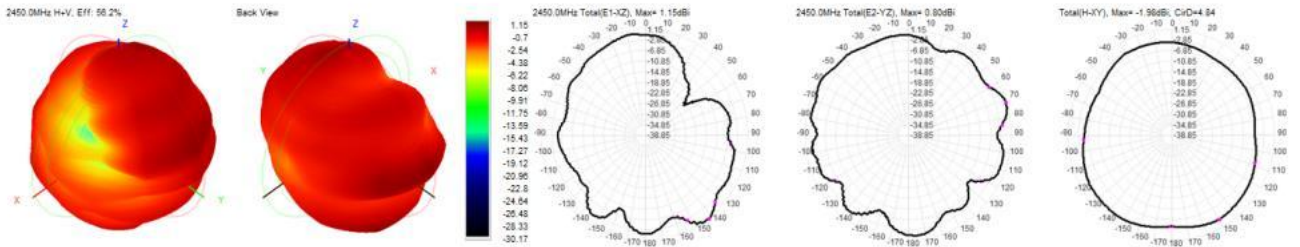
YZ

XY

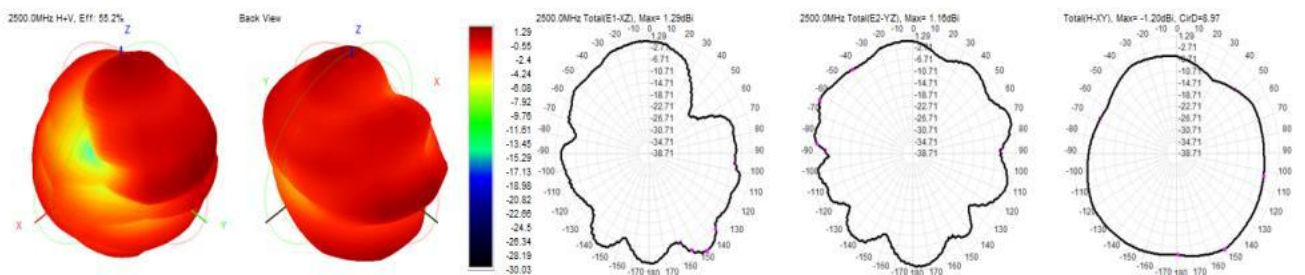
2400MHz



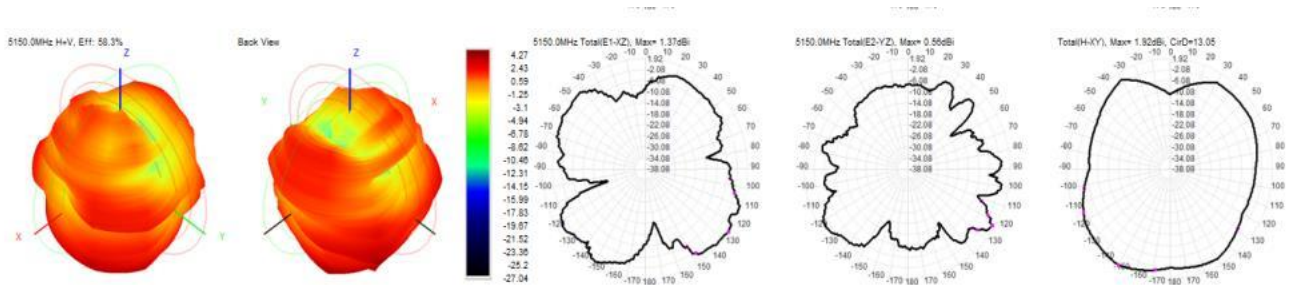
2450MHz



2500MHz



5150MHz

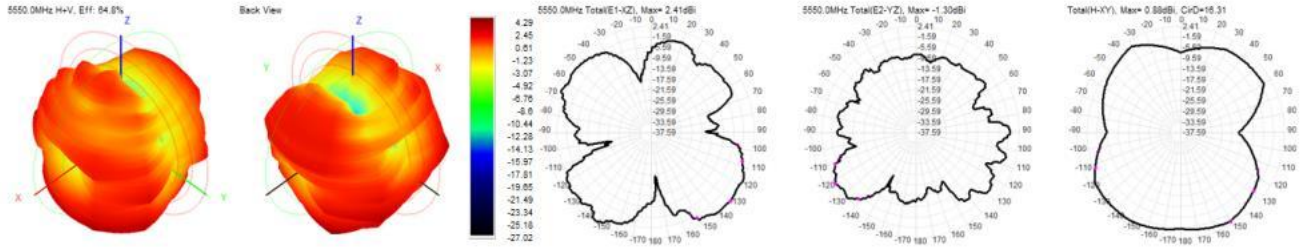


东莞市群创通信技术有限公司

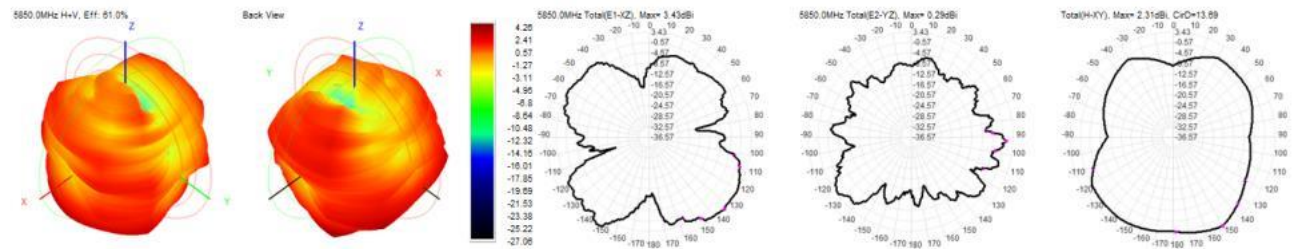
Product Number: AN2450-FPC419098-2

Product Name: Antenna

5550MHz

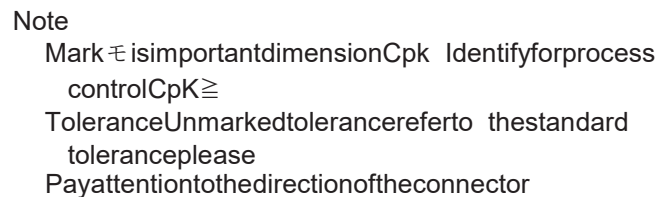


5850MHz



5. Mechanical Drawing See attached files

SIGN	DATE	DESCRIPTION	APPROVER
			
			
			



东莞市群创通信技术有限公司				
TITLE Antenna				
PARTNO AN				
				
				UNITSmm
				SCALE
				REVISION A
				X° ±