

Product number:AN0827-FPC139BFK
antenna specification:4G FPC antenna L=200mm+FAKRA

Manufacture:

Dongguan Haiheng Electronic Technology Co., LTD
Address: Room 209, 2nd Floor, No. 51, Jinghai East Road, Shatou
South District, Chang 'an Town, Dongguan City

Product Number:AN0827-FPC139BFK
Product Name: Antenna

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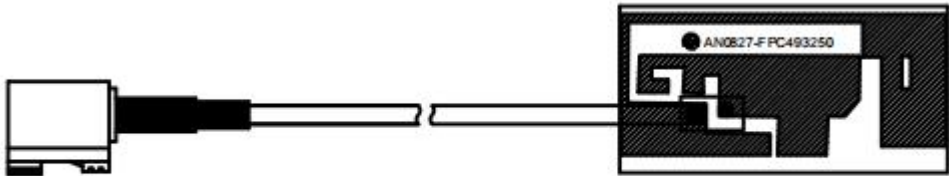
Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2024.9.23	初版	

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	824-960 MHz/1710-2700MHz
S.W.R. 驻波比	参考波形
Antenna Gain 增益	2.58dBi /3.32dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Cable Type 线材规格	RG316
Connector Type 连接器规格	FAKRA A
C. Environmental	
Storage Temperature 存储温度	- 40°C ~ +80 °C
Operation Temperature 工作温度	- 40°C ~ +80 °C

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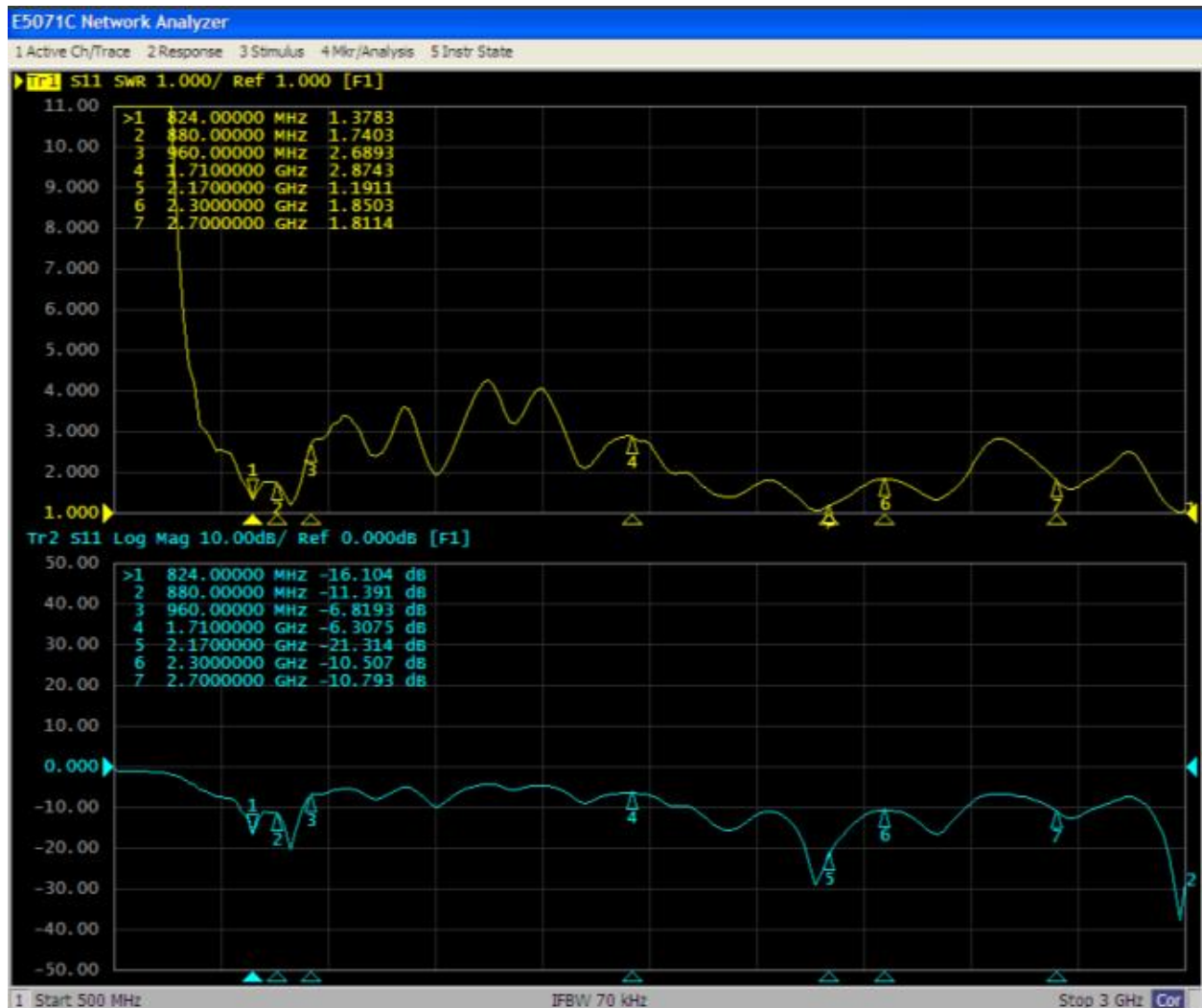
2. Characteristics and Reliability Test

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	Directive RoHS 2015/863/EU 符合 RoHS 2015/863/EU 标准	PASS

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3. Antenna - S Parameter Test Data



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4. Antenna - Radiation Pattern Test Data

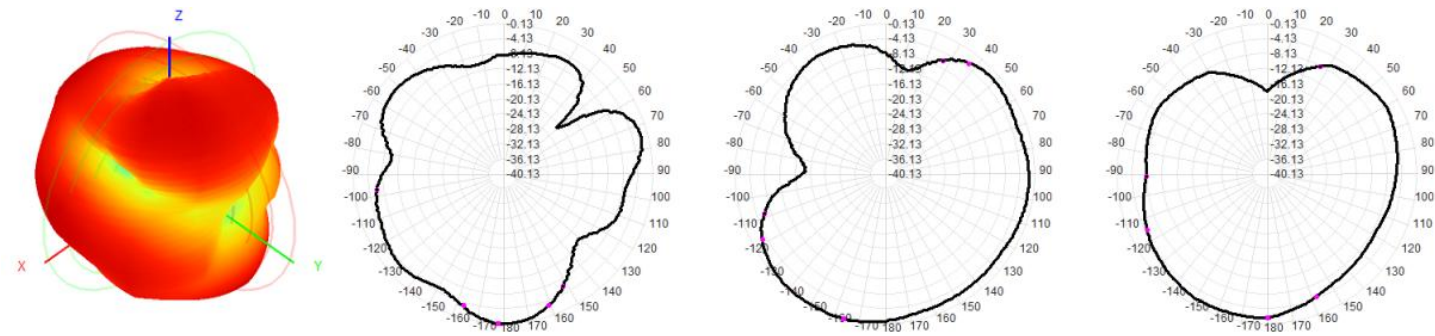
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Frequency (MHz)	824.0	858.0	892.0	926.0	960.0	1710.0	1756.0	1802.0	1848.0	1894.0	1940.0	1986.0	2032.0	2078.0	2124.0	2170.0	2300.0	2400.0	2500.0	2600.0	2700.0
Gain (dBi)	1.89	2.15	2.58	2.41	2.05	1.82	1.95	2.09	2.78	2.88	2.35	2.50	2.36	2.05	3.04	3.01	2.81	3.32	2.46	2.38	2.25
Efficiency (%)	31.62	32.56	33.46	32.97	32.08	51.39	52.40	53.09	53.46	52.46	51.89	54.53	53.24	52.46	51.05	54.01	55.22	57.69	54.28	54.16	52.46

XZ

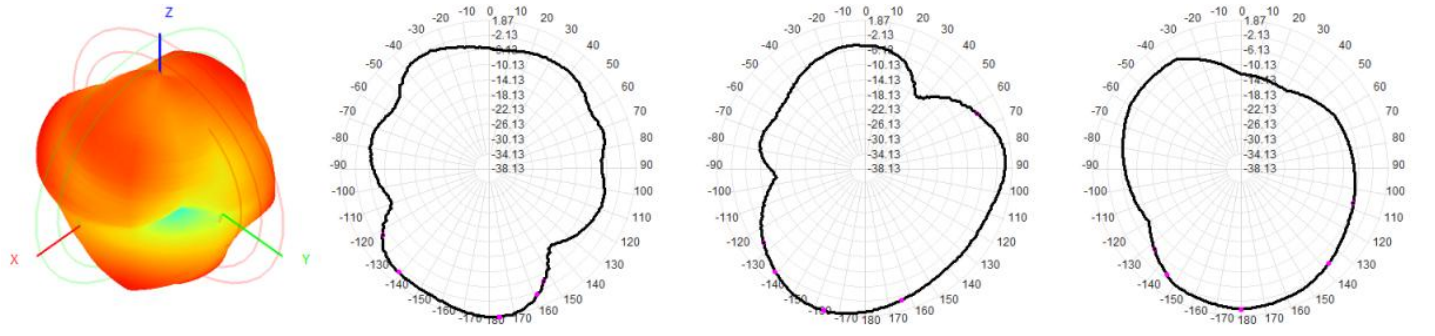
YZ

XY

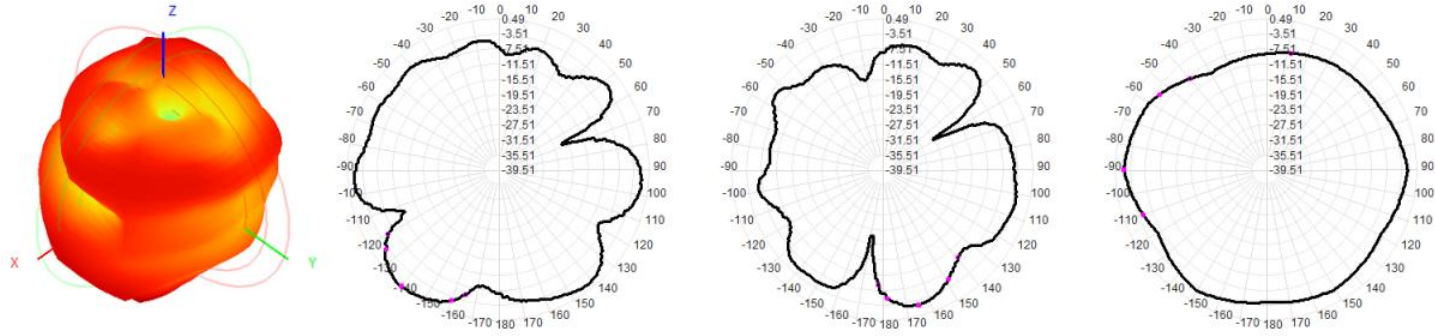
824MHz



960MHz



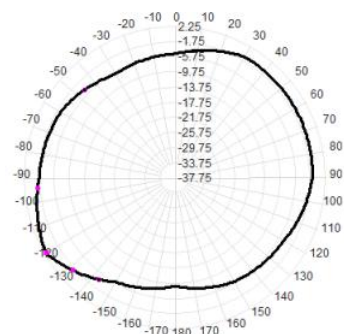
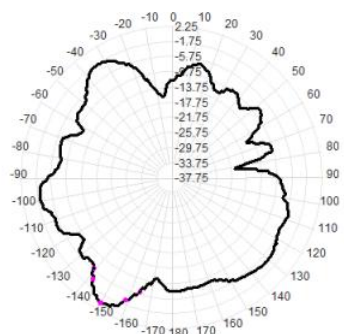
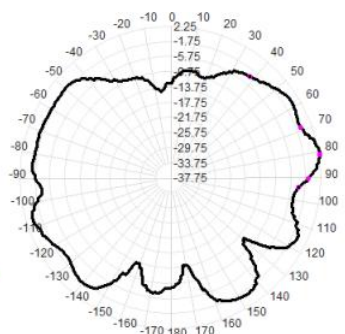
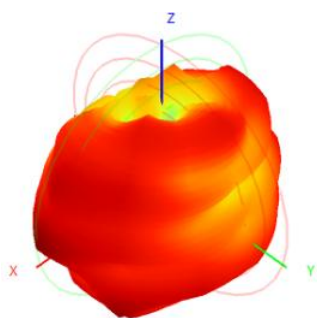
1710MHz



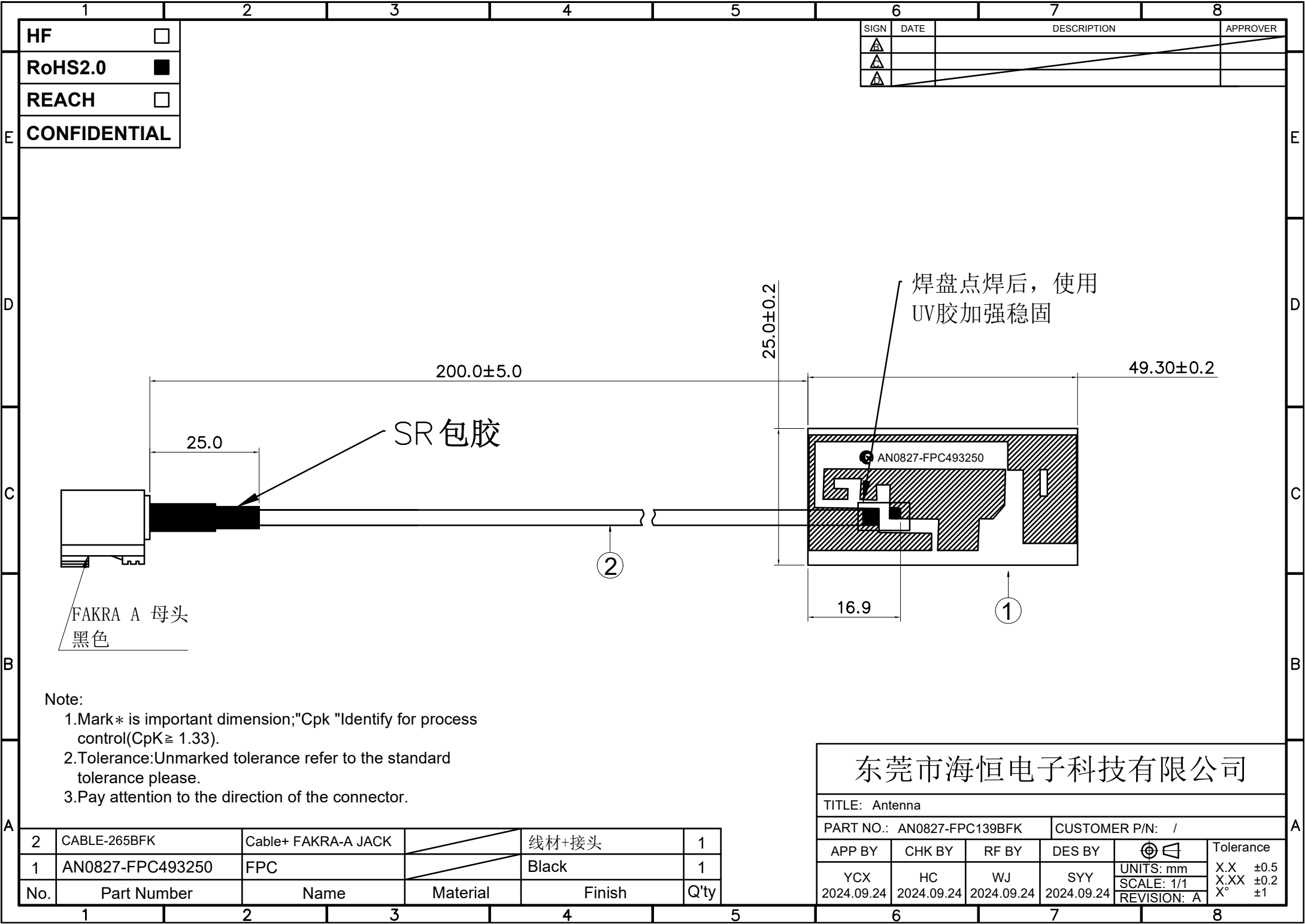
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2700MHz



5. Mechanical Drawing See attached files



HF	☐
RoHS2.0	☒
REACH	☐
CONFIDENTIAL	

SIGN	DATE	DESCRIPTION	APPROVER

FAKRA A 母头
黑色

SR 包胶

焊盘点焊后，使用
UV胶加强稳固

- Note:
- 1.Mark* is important dimension;"Cpk "Identify for process control(CpK≥ 1.33).
 - 2.Tolerance:Unmarked tolerance refer to the standard tolerance please.
 - 3.Pay attention to the direction of the connector.

2	CABLE-265BFK	Cable+ FAKRA-A JACK		线材+接头	1
1	AN0827-FPC493250	FPC		Black	1
No.	Part Number	Name	Material	Finish	Q'ty

东莞市海恒电子科技有限公司					
TITLE: Antenna					
PART NO.: AN0827-FPC139BFK				CUSTOMER P/N: /	
APP BY	CHK BY	RF BY	DES BY		Tolerance
YCX	HC	WJ	SY		X.X ±0.5
2024.09.24	2024.09.24	2024.09.24	2024.09.24	UNITS: mm	X.XX ±0.2
				SCALE: 1/1	X° ±1
				REVISION: A	

产品包装规范

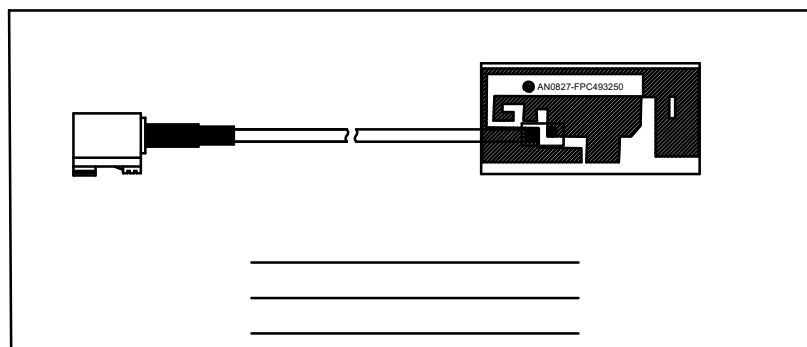
PACKING CRITERION

Date: 2024.09.24

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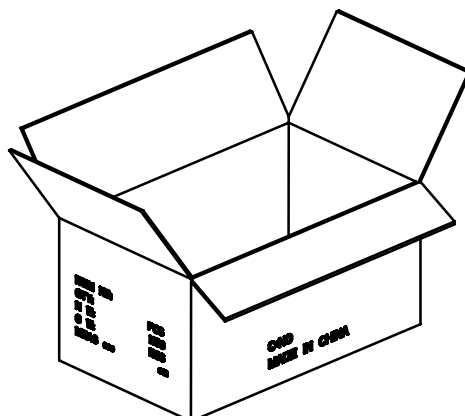
Part Number : AN0827-FPC139BFK	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



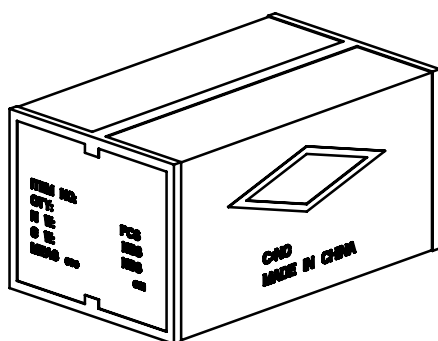
50pcs/ PE bag

2.PACKING。

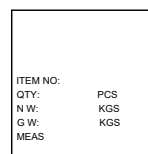


2000pcs/Carton

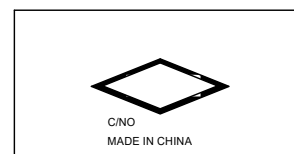
3. SEALING。



SIDE



FRONT



APPROVED BY : YCX CHECKED BY : HC DESIGNED BY : SY Y