

Product Number: HG5800-0308RS-G
Product Name: Antenna

Specification For Approval

Date: 2025.9.22

Version: 1.0

客户名称
Customer: 美唯思

客户料号
Customer P/N:

料号
T X P/N: HG5800-0308RS-G

规格描述
Description : 5G 灰色玻璃钢天线 SMA 公头母针

Tengxiang Checked By: 审核		Customer Approved By: 客户审核	
TEST 测试	Laating	TESTED BY 检测	
CHECKED BY 审核	Huamtne	CHECKED BY 审核	
Q.C.DEPT. 品管	Zhou Zhihong	Q.C.DEPT. 品管	
APPROVED BY 核准	Wathai	APPROVEDBY 核准	

Manufacturer: Yuanchuangxing electronics (Shenzhen)CO.,LTD.
Address: Building A, No. 164 Junxin Road, Niuahu Community,
Guanlan Street, Longhua District, Shenzhen

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Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.9.22	初版	

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1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	5150 ~ 5850MHz
S.W.R. 驻波比	≤ 2.0
Antenna Gain 增益	7.56dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Plastic 塑胶材质	灰色玻璃纤维管
Connector Type 连接器规格	SMA 公头母针镀镍
Waterproof 防水等级	IPX6
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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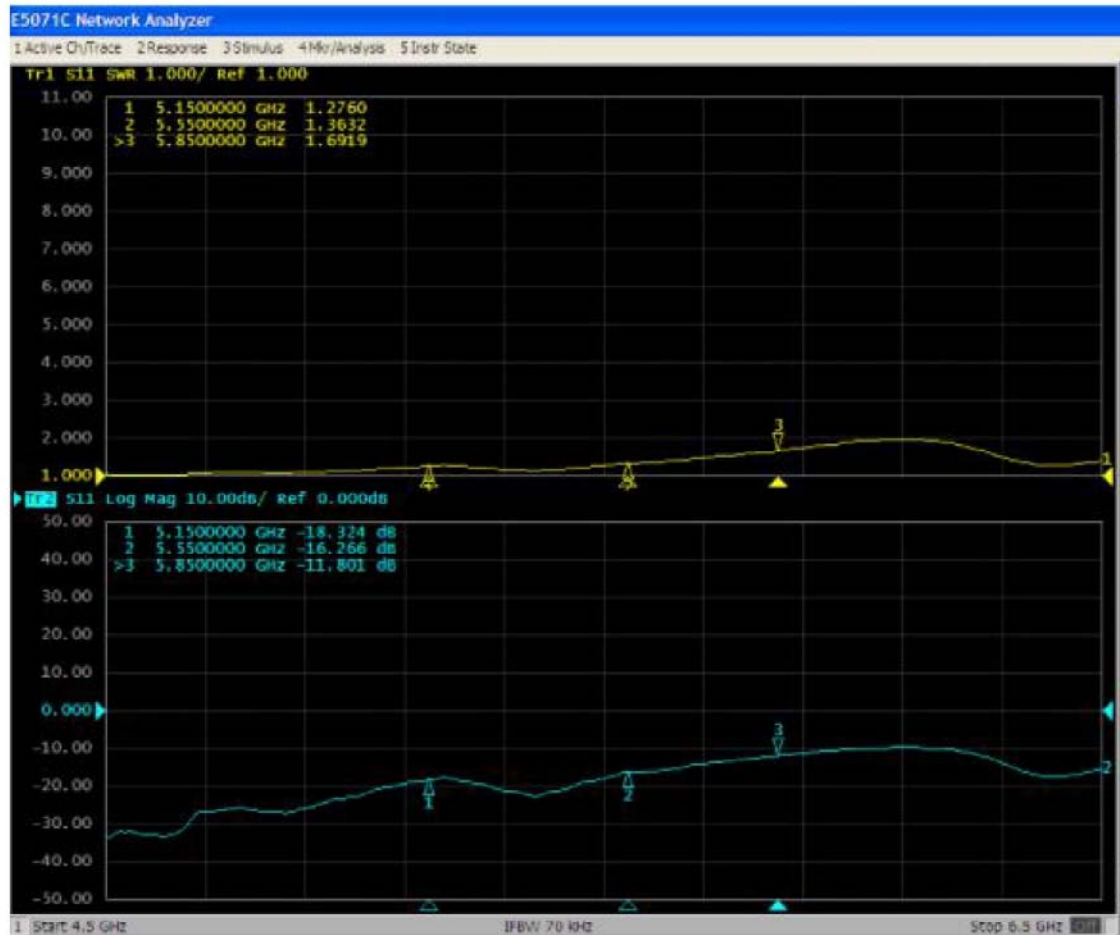
2. Characteristics and Reliability Test

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	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
3	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%	PASS
4	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
5	Waterproof 防水	With Reference to IEC 60529 // IP Code Definition 参考 IEC60529 IP 定义 IPX6	Directive DUT specification 符合待测物规范	PASS
6	Salt Spray 盐雾	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%;Time: 24H 温度 35°C; 湿度≥95%;盐水浓度≥5%; 测试 24H	1. No Visual Damage 2. Frequency Tol.≤5% 无明显外观不良;频率偏移≤5%	PASS
7	Temperature and Humidity Chamber 恒温恒湿	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; 湿度≥ 90%; 时间 24H	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%	PASS
8	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321 测试流程	Directive RoHS 2011/65/EU 符合 RoHS 2015/863/EU 标准	PASS

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3. Antenna - S Parameter Test Data

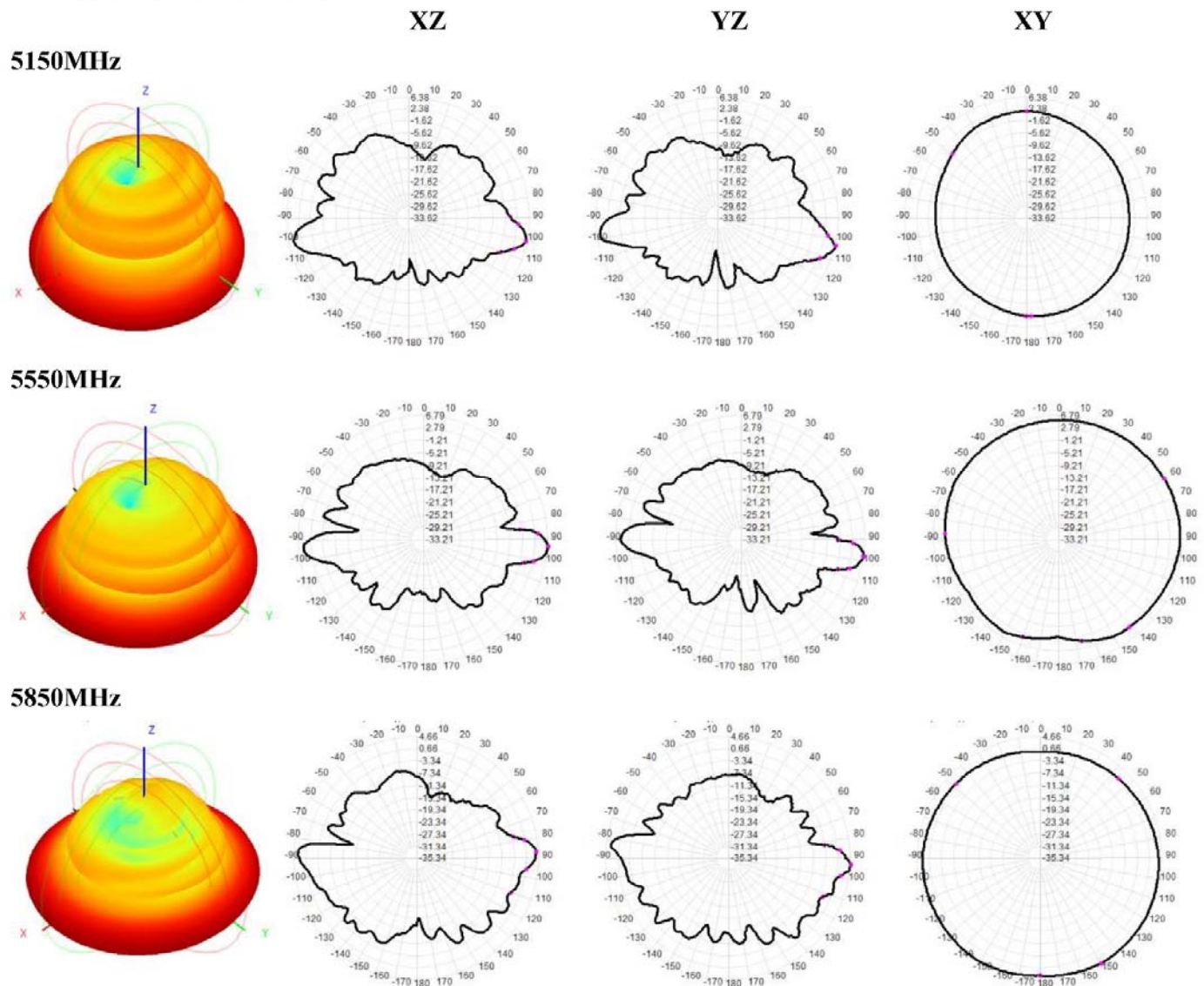


4. Antenna - Radiation Pattern Test Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Frequency (MHz)	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
Gain (dBi)	6.48	6.44	6.57	6.39	6.82	7.04	7.16	6.66	7.16	7.56	7.55	6.72	6.69	6.66	5.88
Efficiency (%)	65.21	70.95	76.96	67.40	76.70	77.75	77.65	71.56	74.53	78.00	75.63	67.21	69.69	67.88	63.79

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5. Mechanical Drawing See attached files

1 2 3 4 5 6 7 8

HF ☐
RoHS ☒
REACH ☐
CONFIDENTIAL

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			

404±5.0

12.3 30.0

5G

居中心雕5G

1 2 3 4

18.7

13.0

1/4-36UNS-2B

16.0

16.0±0.5

5

1.5

Note:

- 1.Mark*is important dimension;"Cpk "Identify for process control(CpK≧1.33).
- 2.Tolerance:Unmarked tolerance refer to the standard tolerance please.

No.	Part Number	Name	Material	Finish	Q'ty
5		ORING	硅胶圈	红色	1
4		CAP	ABS	灰色	1
3		BODY	玻璃纤维管	灰色	1
2		铝套筒	AL	阳极处理	1
1		SMA 公头母针	Cu	Ni Plated	1

TITLE: 5150-5850MHz 8dBi Antenna			
PART NO.: HG5800-0308RS-G		CUSTOMER P/N: /	
APP BY	CHK BY	RF BY	DES BY
YTX	YCX	WJ	HC
2025.09.23	2025.09.23	2025.09.23	2025.09.23
UNITS: mm			
SCALE: 1/1			
REVISION: A			
Tolerance			
X.X ±0.3			
X.XX ±0.1			
X* ±1			

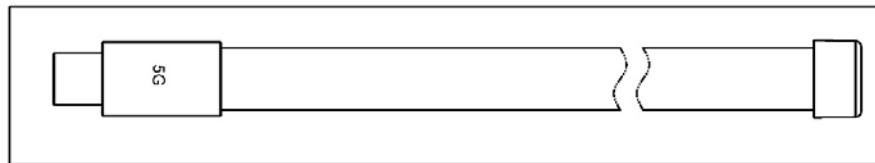
PACKING CRITERION

Date: 2025.09.23

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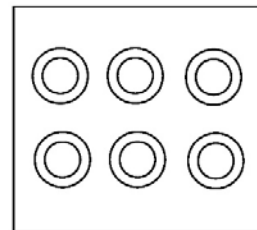
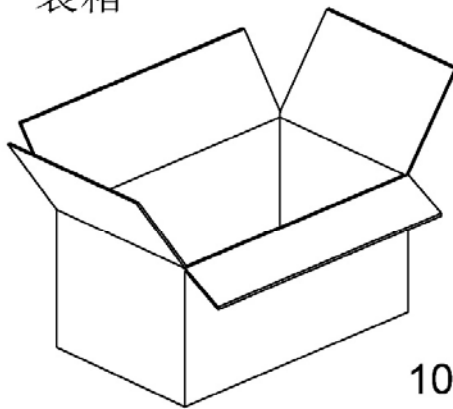
Part Number : HG5800-0308RS-G	Revision : A
Name: Antenna	Customer : ALL

一 装袋



1PCS/珍珠棉袋

二 装箱

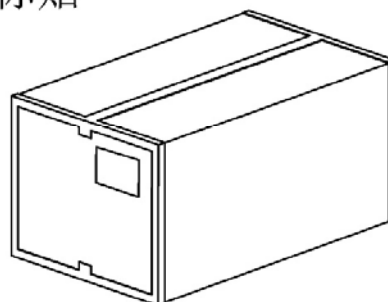


硅胶圈单独放外箱最上层出货

100pcs/Carton

(以实际装箱数量为准)

三 封箱贴物料标贴



APPROVED BY: YCX

CHECKED BY: TOM

DESIGNED BY: HC