

Product Number: HG2400-0312RS-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

TX P/N:

HG2400-0312RS-G

规格描述

Description :

2.4G 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

Product Number: HG2400-0312RS-G
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)
- 5. Mechanical and Packing Drawing (图纸包装规范)

Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2025.9.22	初版	

Product Number: HG2400-0312RS-G

Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	2400 ~ 2500 MHz
S.W.R. 驻波比	≤ 2.0
Antenna Gain 增益	8.05dBi
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

Product Number: HG2400-0312RS-G

Product Name: Antenna

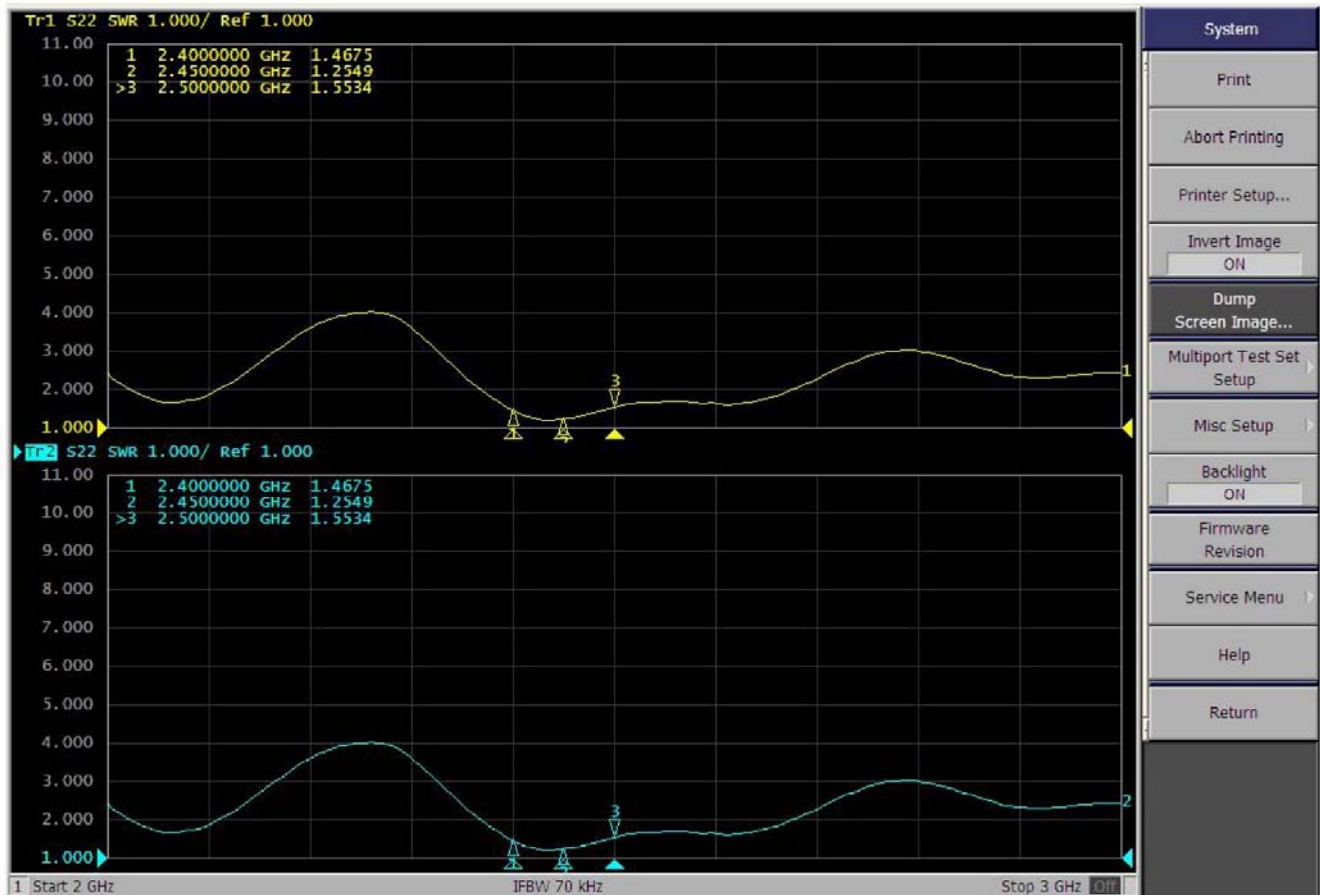
2. Characteristics and Reliability Test

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	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

Product Number: HG2400-0312RS-G

Product Name: Antenna

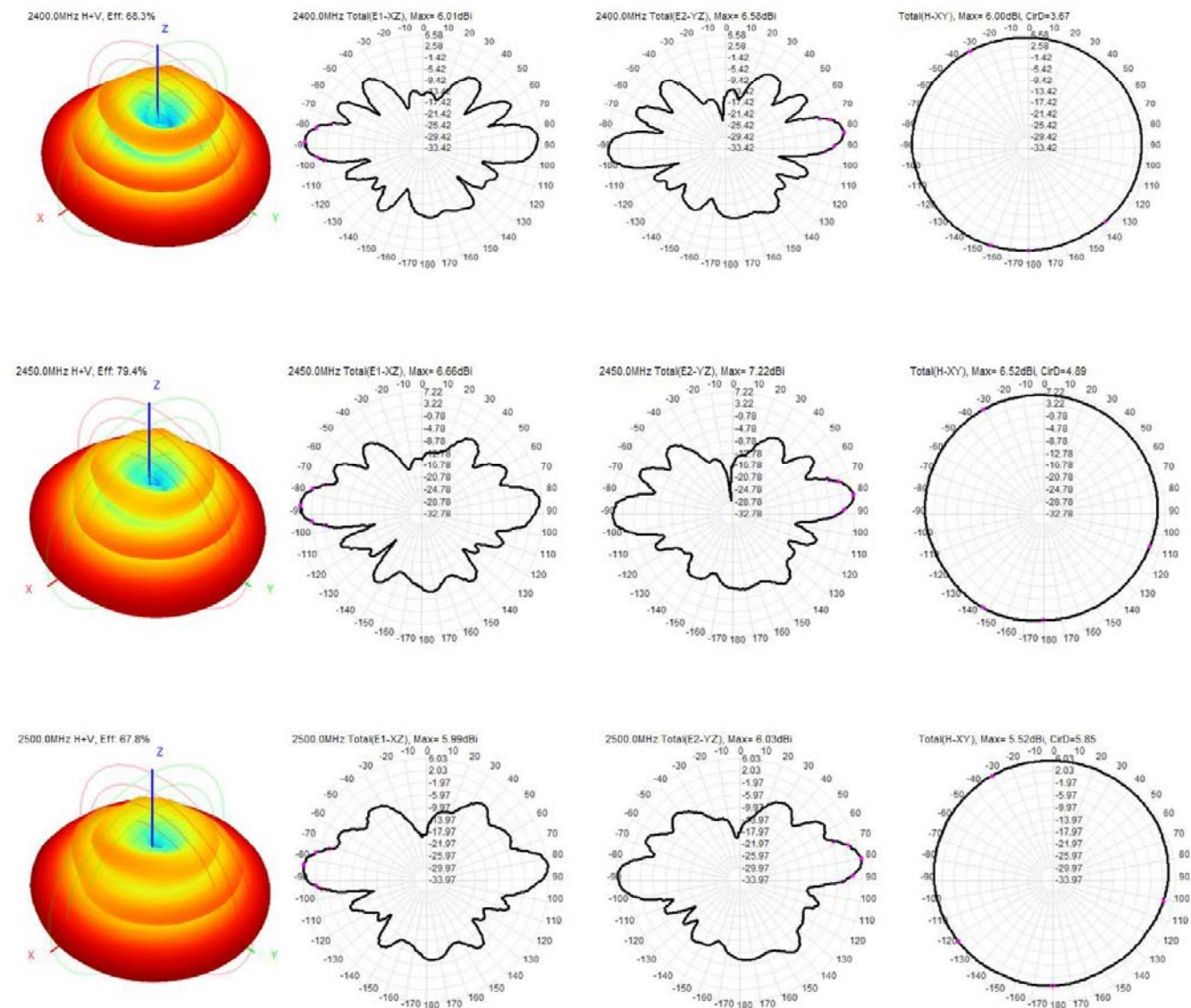
3. Antenna - S Parameter Test Data



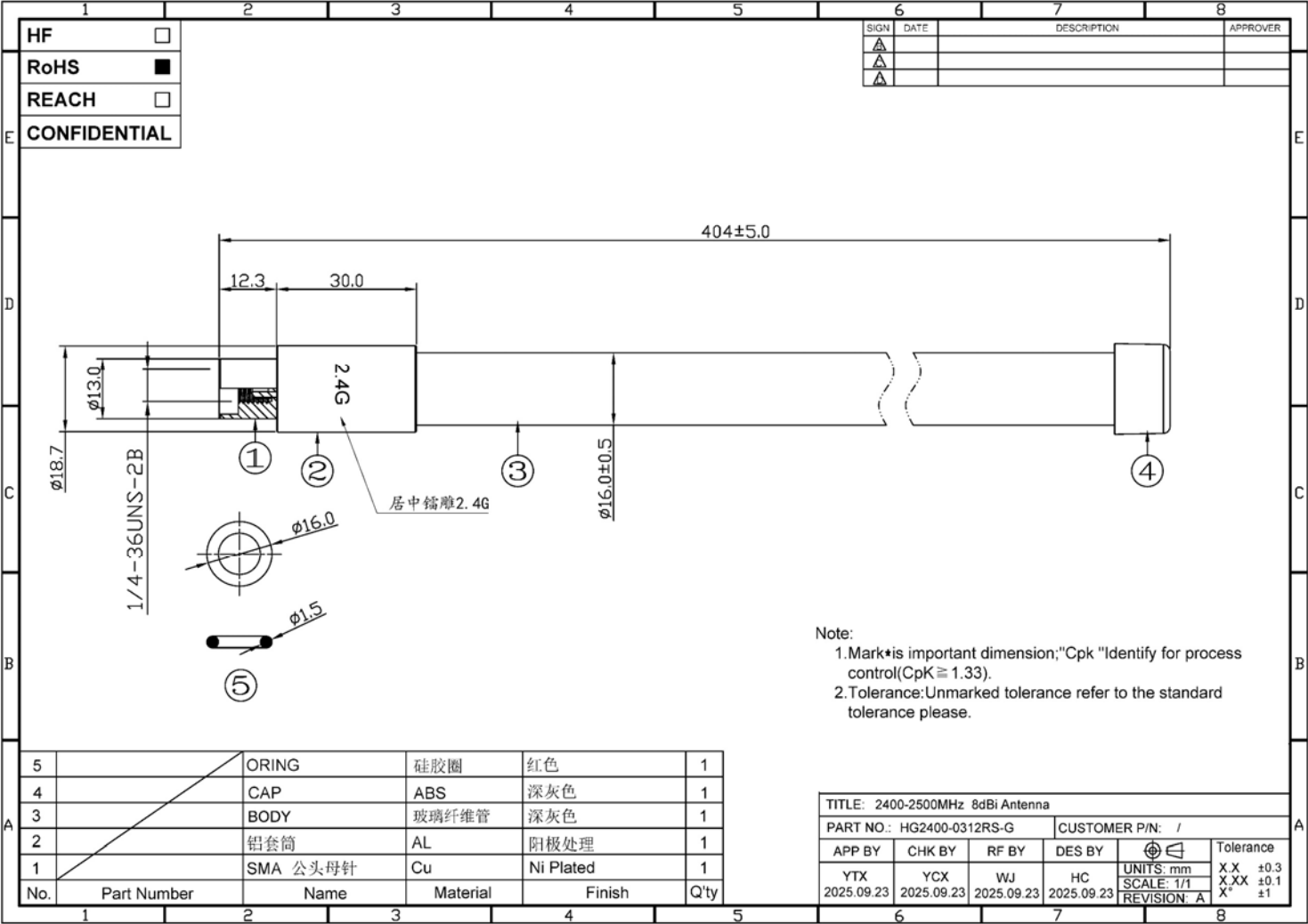
4. Antenna - Radiation Pattern Test Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	6.58	6.83	7.13	7.25	8.05	7.22	7.05	6.85	6.64	6.56	6.42
Efficiency (%)	68.34	71.58	75.18	76.63	79.48	79.40	77.21	74.46	71.41	69.85	67.81

Product Number: HG2400-0312RS-G
Product Name: Antenna



5. Mechanical Drawing See attached files



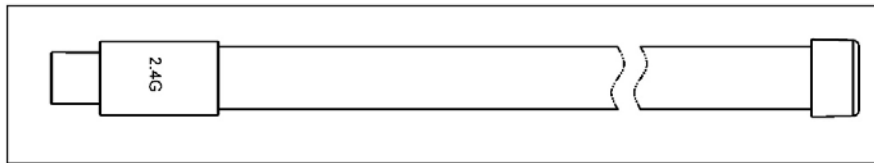
PACKING CRITERION

Date: 2025.09.23

Page: 1 of 1

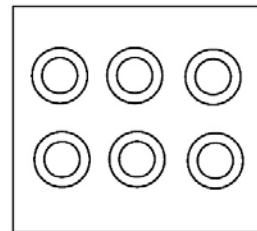
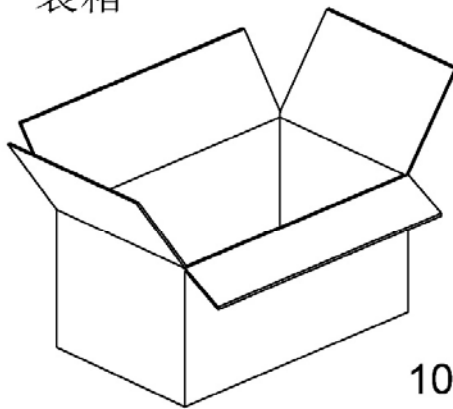
Part Number : HG2400-0312RS-G	Revision : A
Name: Antenna	Customer : ALL

一 装袋



1PCS/珍珠棉袋

二 装箱

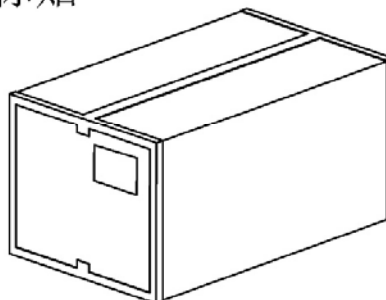


硅胶圈单独放外箱最上层出货

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