Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AB0727-4332SM-3M

Product Name: Antenna

Specification For Approval

Date: 2024.10.23

Version: 1.0

客 户 名 称
Customer：

客 户 料 号
Customer P/N：

腾 祥 料 号
T X P/N： **AB0727-4332SM-3M**

规 格 描 述
Description： **4G 磁盘天线 RG174 黑色线 L=3M SMA（公头公针）**

Tengxiang Checked By: 腾 祥 审 核		Customer Approved By: 客 户 审 核	
DRAWN 制 作	路婷	TESTED BY 检 测	
CHECKED BY 审 核	胡超	CHECKED BY 审 核	
Q.C.DEPT. 品 管	江美如	Q.C.DEPT. 品 管	
APPROVED BY 核 准	韦佳	APPROVEDBY 核 准	

东莞市腾祥电子有限公司 工程部

NO.53 Shatou ShaChong Road, ChangAn Town, Guangdong province, China

中国广东省东莞市长安镇沙头区沙涌路 53 号

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http://www.tenxiang.cn

Product Number: AB0727-4332SM-3M
Product Name: Antenna

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Revision History（变更履历）

Revision	Date	Change Notification	Description
1.0	2024.10.23	初版	

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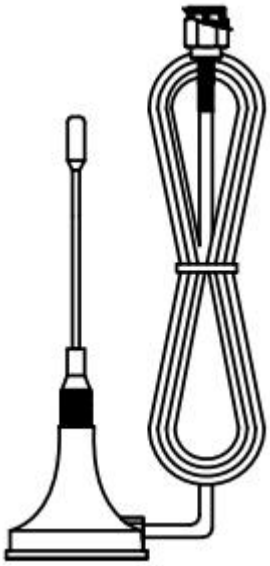
Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	**698-960 MHz /1710-2700MHz**
S.W.R. 驻波比	**<= 3.0**
Antenna Gain 增益	**-0.93dBi / -1.48dBi**
Polarization 极化方式	**Linear**
Impedance 阻抗	**50 Ohm**
B. Material & Mechanical Characteristics	
Material of Plastic 塑胶材质	**ABS**
Cable Type 线材规格	**RG174**
Connector Type 连接器规格	**SMA Plug**
C. Environmental	
Storage Temperature 存储温度	**- 40 ˚C ~ +65 ˚C**
Operation Temperature 工作温度	**- 40 ˚C ~ +65 ˚C**
Antenna Color Storage life 天线颜色存储寿命	**< 2** year

Product Number: AB0727-4332SM-3M
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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	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%	PASS
5	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
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: 65°C / 12 H; -40°C / 12H RH: ≥ 90%; Time: 24H 温度 65°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	Aging test 老化	GB /T 2423.2 - 2008 Temp:65°C; Time: 24 hours 温度 65° C，测试 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 无明显外观不良;频率偏移≤5%	PASS
9	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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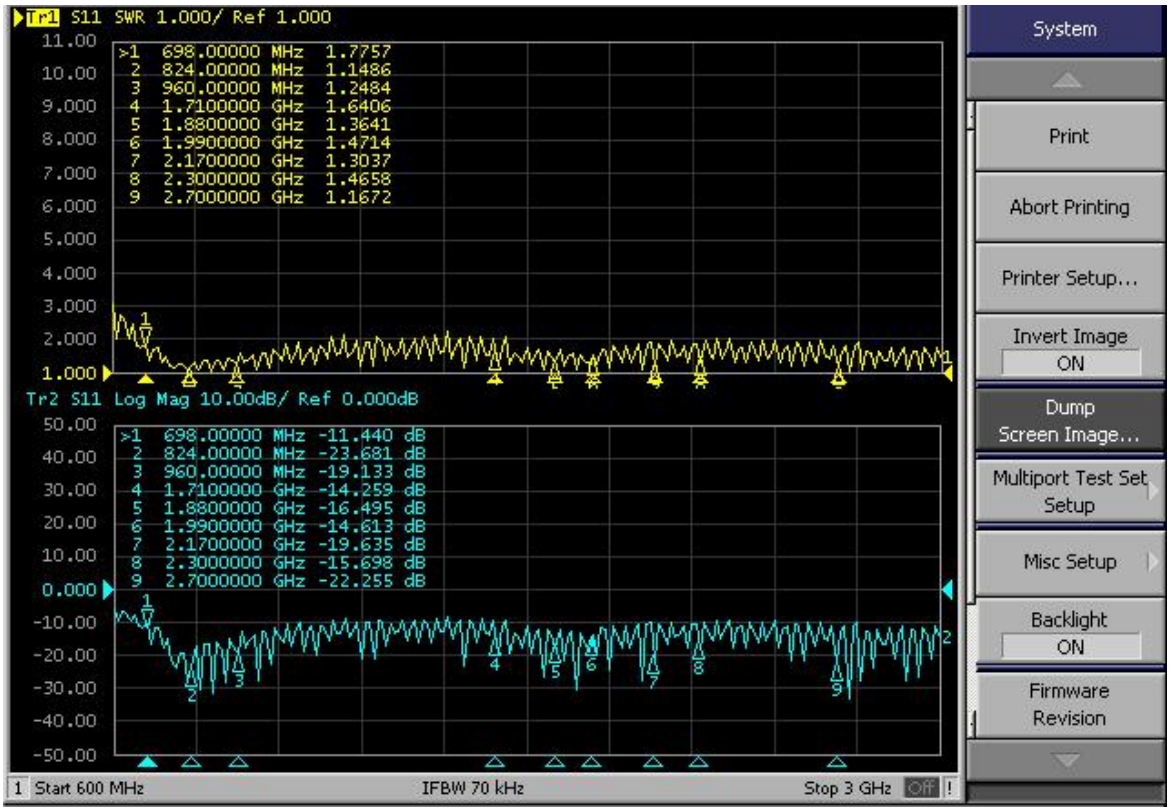
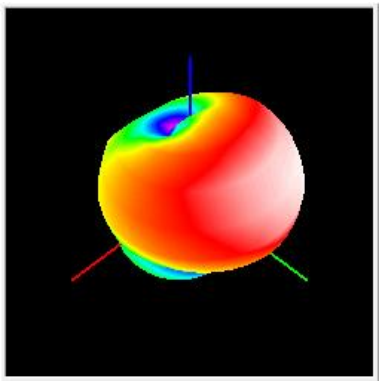
3. Antenna - S Parameter Test Data



4. Antenna - Radiation Pattern Test Data

Frequency (MHz)	824	880	960	1710	1770	1880	1990	2170
Efficiency (%)	17.1	28.2	41.6	24.7	24.2	27.3	30.6	21.3
Gain (dBi)	-3.13	-1.84	-0.93	-3.12	-3.11	-2.99	-1.48	-3.05



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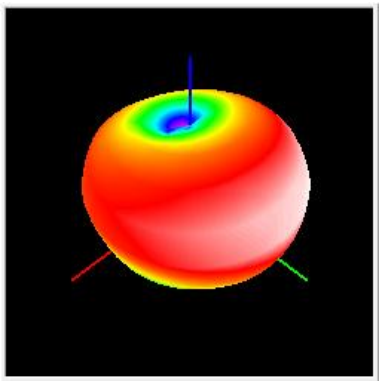

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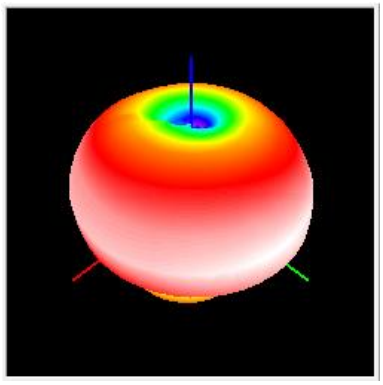
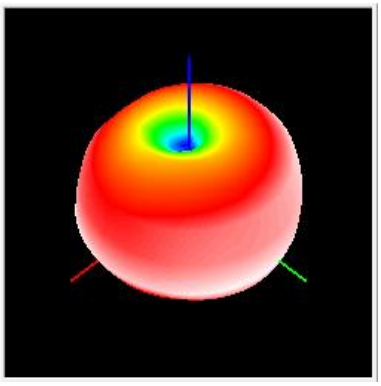


960

Product Number: AB0727-4332SM-3M
Product Name: Antenna



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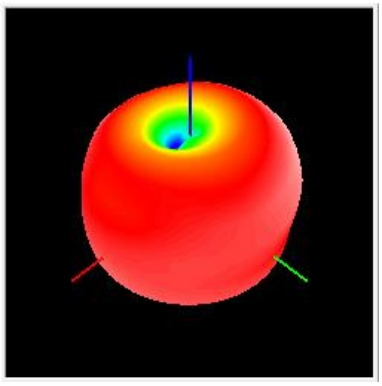

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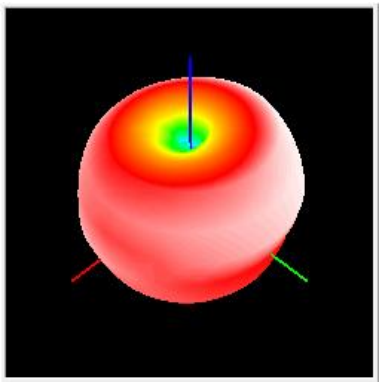

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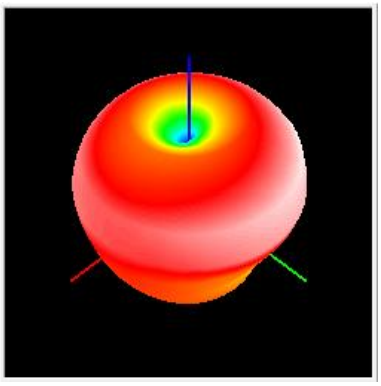
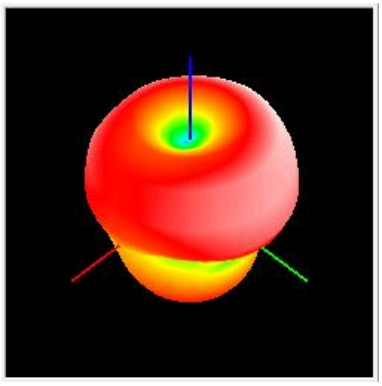
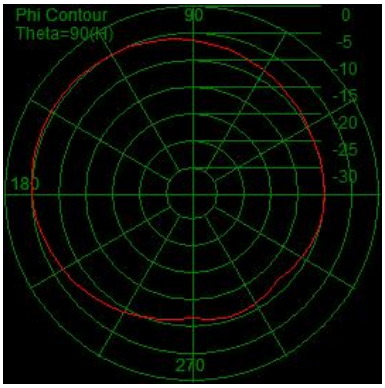
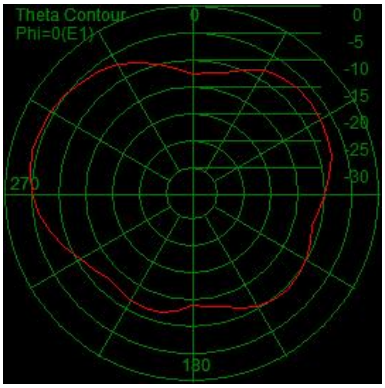
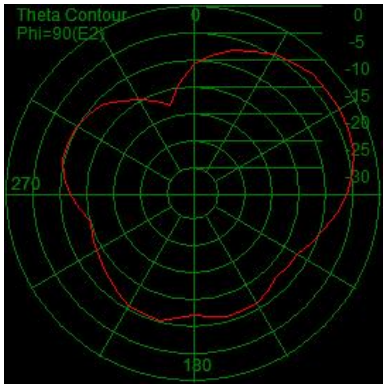
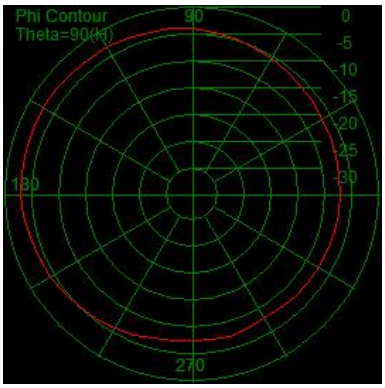
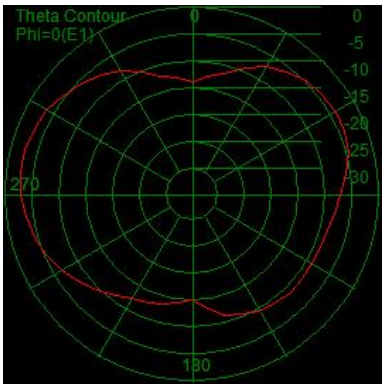
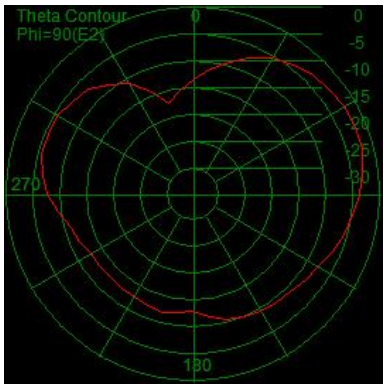


1990



2170

	XY_Plane	XZ_Plane	YZ_Plane
824MHz			
880MHz			

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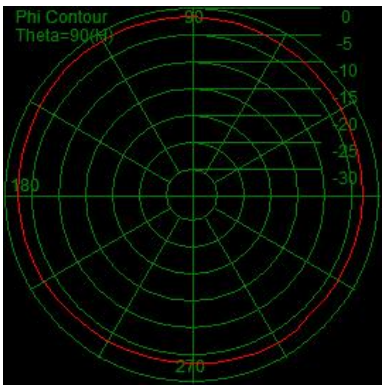
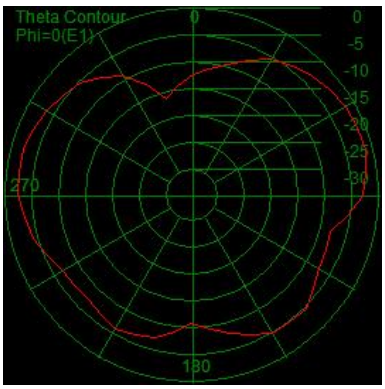
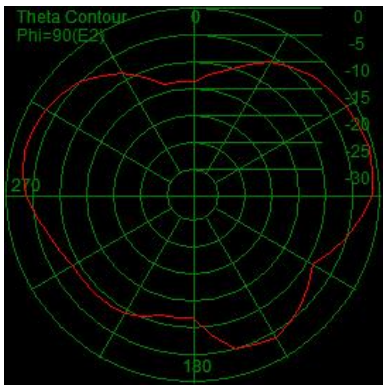
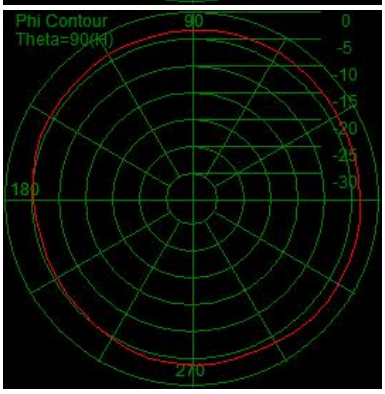
960MHz

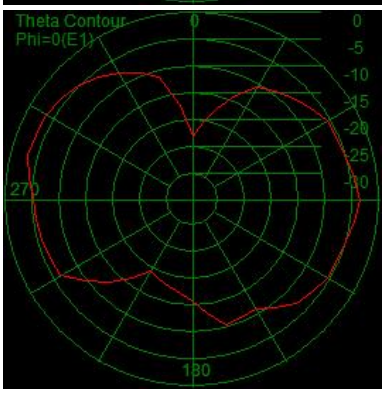


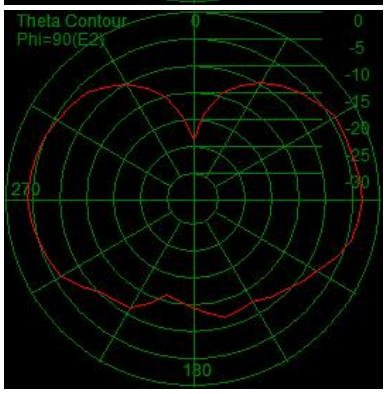




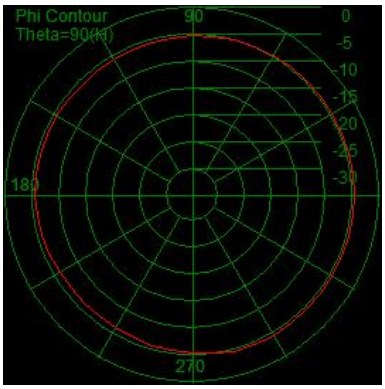
1710MHz

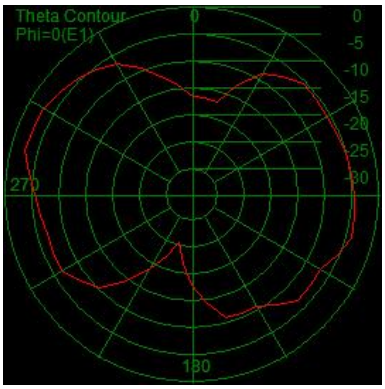


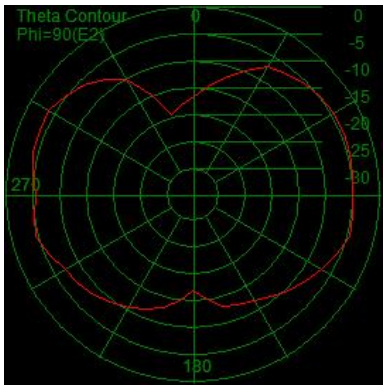




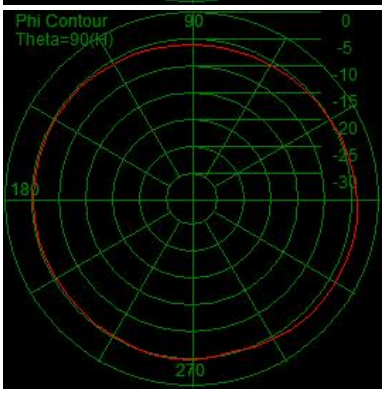
1770MHz

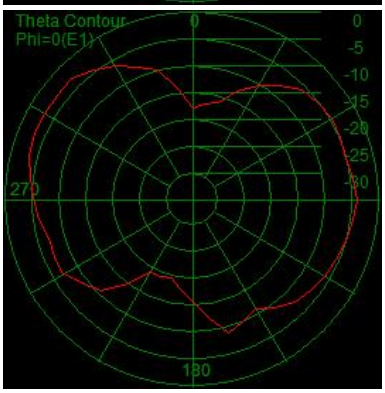


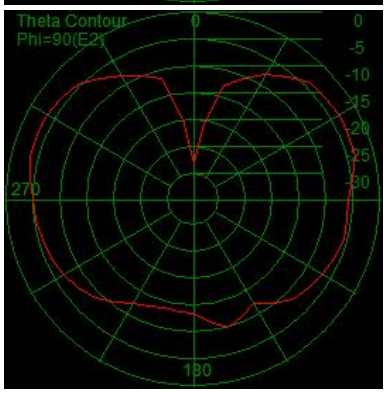




1880MHz







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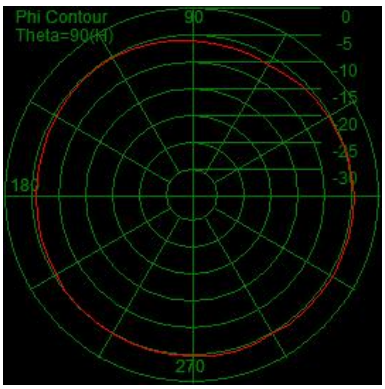
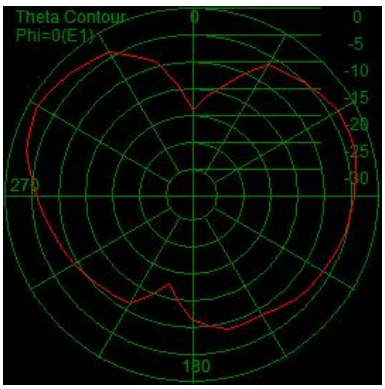
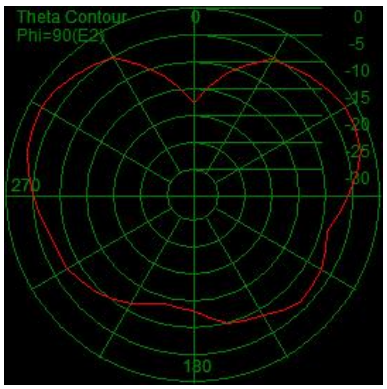
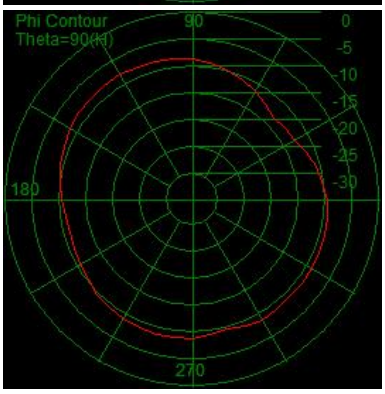
1990MHz

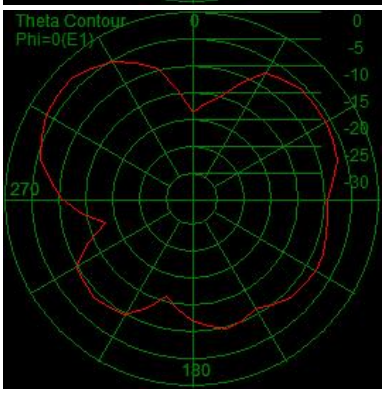


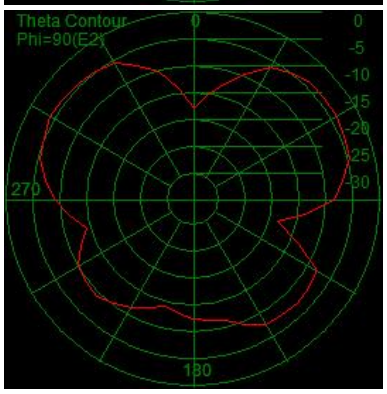




2170MHz



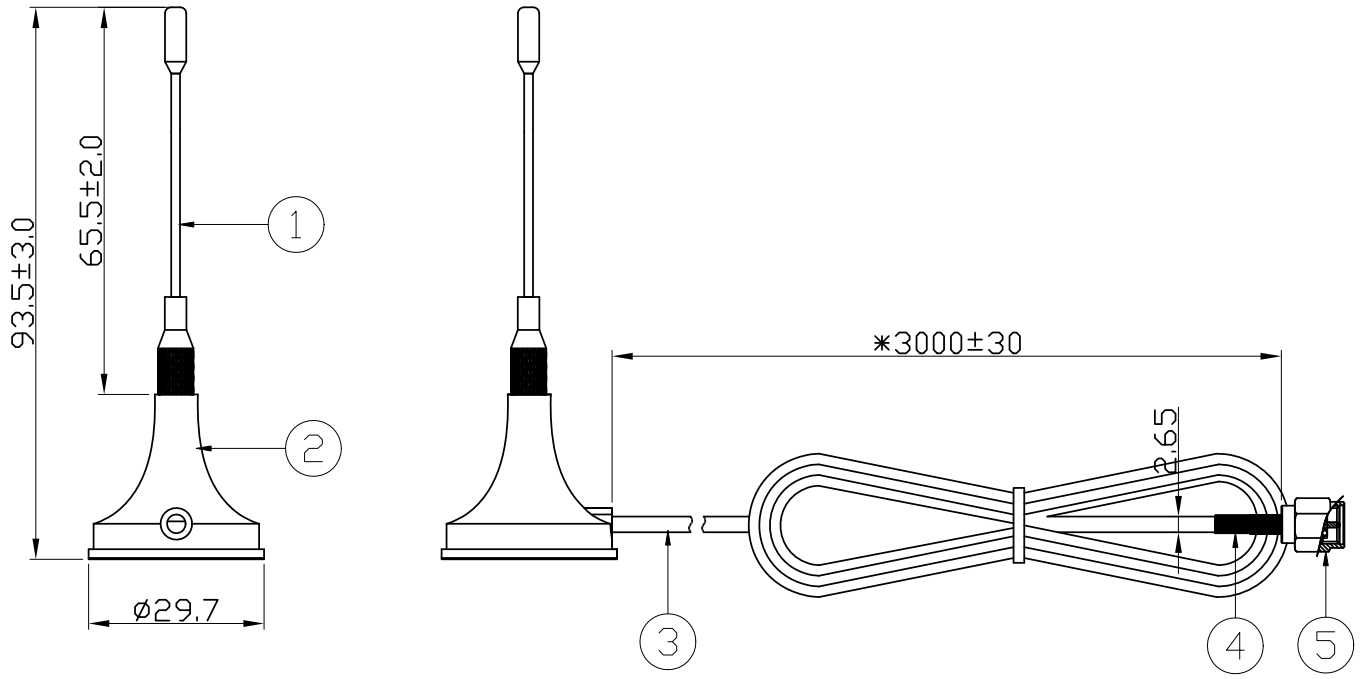




5. Mechanical Drawing See attached files

RoHS
Compatible

SIGN	DATE		APPROVER
B			
C			
D			



Note:
1. Dimension: Take * is the important dimension
2. Tolerance: Unmarked tolerance refer to the standard tolerance please

No.	Part Number	Description	Material	Finish	Q'ty
5	SMA085-G8MN74-SH	SMA PLUG	Cu Au plated		1
4	HSTUBE-004N	HST	EVA	L=20mm,Black	1
3	RG-174UL	Cable		Black	1
2	ASM-AB43-02	Body2	ABS	Black	1
1	ASM-SP1506655	Body1	Steel	Black	1

Tengxiang Technology Inc.

TITLE: Antenna

PART NO.: AB0727-4332SM-3M | DWG NAME:

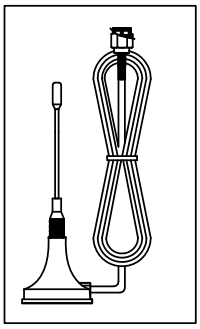
APP BY	CHE BY	RF BY	DES BY	Tolerance
YCX 2024.10.16	HC 2024.10.16	WJ 2024.10.16	SYY 2024.10.16	UNITS: mm SCALE: 1/1 REVISION: A X.X ± 0.3 X.XX ± 0.1 X° ± 1°

產品包裝規範
PACKING CRITERION

Date: 2024.10.16

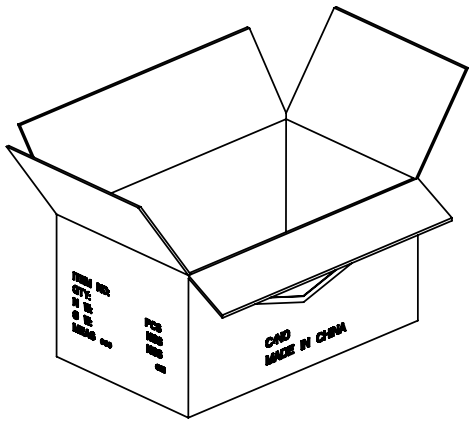
Part Number : AB0727-4332SM-3M	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。



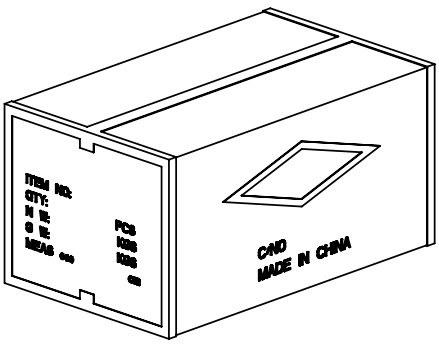
1pcs/ PE bag

2.PACKING。

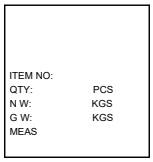


200pcs/Carton

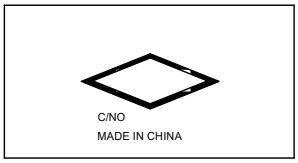
3. SEALING。

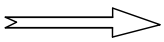


SIDE



FRONT





APPROVED BY: YCX CHECKED BY: HC DESIGNED BY: SYY