



# Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AB0660-5001SM-2M

Product Name: Antenna

## Specification For Approval

Date: 2022.11.11

Version: 1.0

客户名称

Customer: \_\_\_\_\_

客户料号

Customer P/N: \_\_\_\_\_

腾祥料号

T X P/N:

AB0660-5001SM-2M

规格描述

5G 大磁盘底座天线 SYV50-3 出线 2M

Description :

SMA 公头公针

Tengxiang Checked By: 腾祥审核		Customer Approved By: 客户审核	
DRAWN 制作	HC	TESTED BY 检测	
CHECKED BY 审核	胡超	CHECKED BY 审核	
Q.C.DEPT. 品管	梁凤珍	Q.C.DEPT. 品管	
APPROVED BY 核准	韦佳	APPROVEDBY 核准	



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东莞市腾祥电子有限公司

Product Number: AB0660-5001SM-2M

Product Name: Antenna

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## Revision History (变更履历)

Revision	Date	Change Notification	Description
1.0	2022.11.11	初版	

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## 1. Specification

### Sample Photo



### A. Electrical Characteristics

Frequency 频率	617-960MHz / 1710-6000MHz
S.W.R. 驻波比	<= 4.0
Antenna Gain 增益	5.32 dBi max
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	SYV50-3 2米
Connector Type 连接器规格	SMA 公头公针

### 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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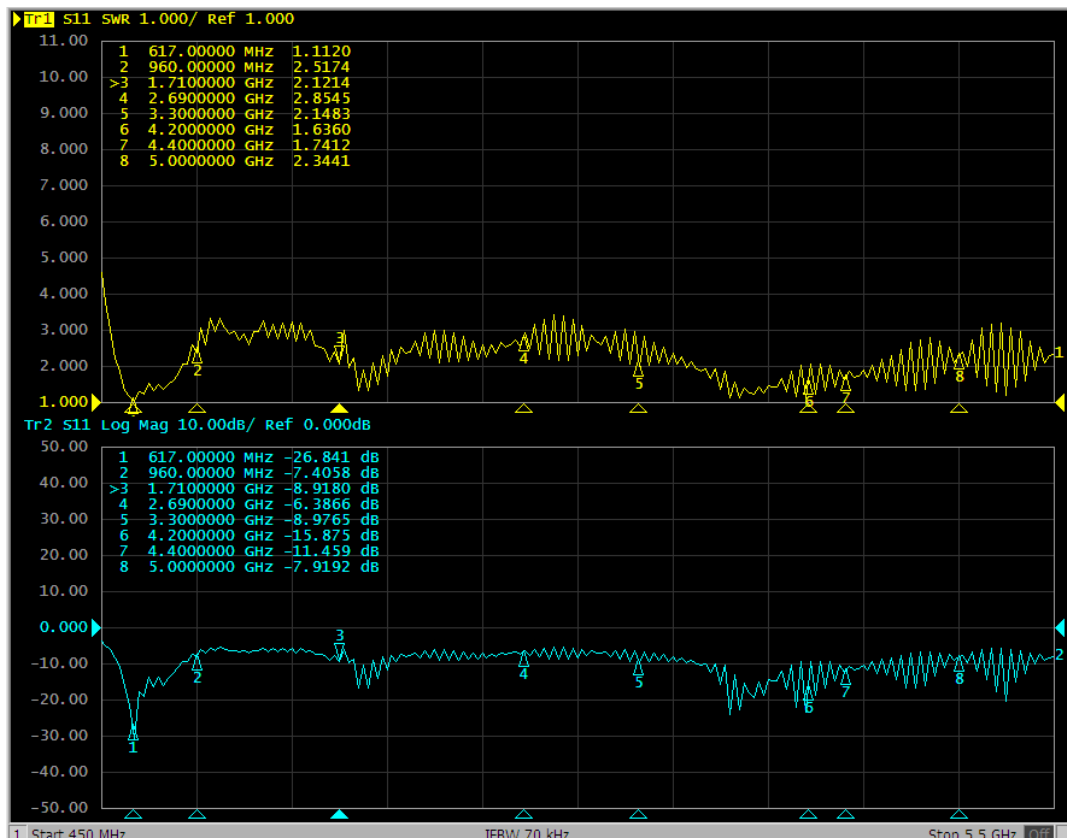
## 2. Characteristics and Reliability Test

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. 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	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: $\geq 95\%$ ; 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
7. Temperature and Humidity Chamber 恒温恒湿	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: $\geq 90\%$ ; Time: 24H 温度 80°C 测试 12H 转 -40°C 测试 12H; 湿度 $\geq 90\%$ ; 时间 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 恢复 2H 后, 无明显外观不良; 频率偏移 $\leq 5\%$	PASS
8. Thermal Shock 冷热冲击	GB / T 2423.22 - 2008 - 40° C (30 minutes) to + 80° C (30 minutes); Cycles: 24 - 40° C 测试 30 分转 80° C 测试 30 分为一个周期; 共 24 周期	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 恢复 2H 后, 无明显外观不良; 频率偏移 $\leq 5\%$	PASS
9. Aging test 老化	GB / T 2423.2 - 2008 Temp: 80°C; Time: 24 hours 温度 80° C, 测试 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 无明显外观不良; 频率偏移 $\leq 5\%$	PASS
10. 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



Frequency ID	1	2	3	4	5	6	7	8	9
Frequency (MHz)	617.0	666.0	715.0	764.0	813.0	862.0	911.0	960.0	1450.0
Gain (dBi)	0.11	0.17	1.96	1.79	2.78	1.83	3.43	3.41	3.50
Efficiency (%)	46.32	59.83	79.44	79.60	73.07	57.79	72.16	64.75	66.16

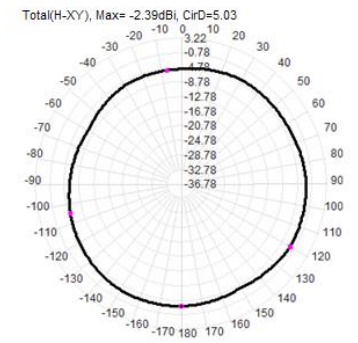
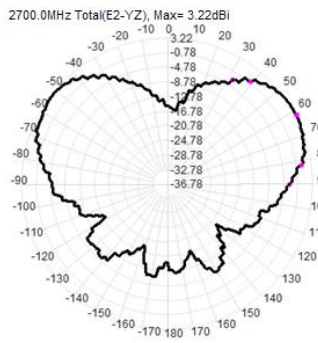
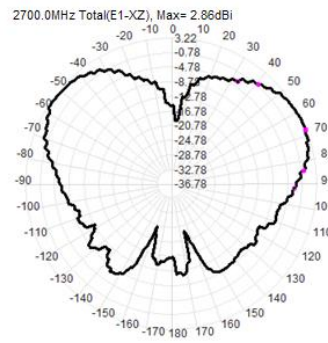
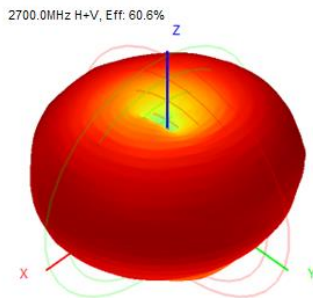
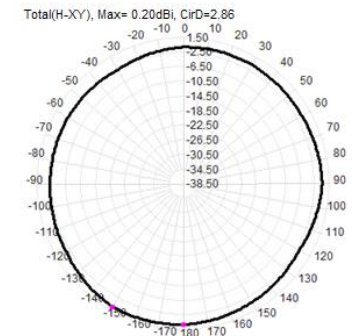
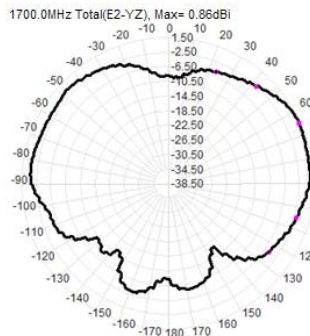
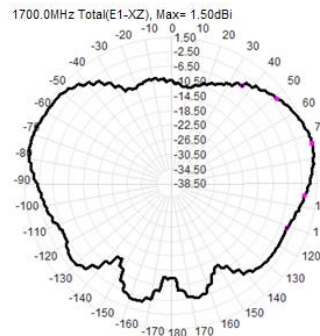
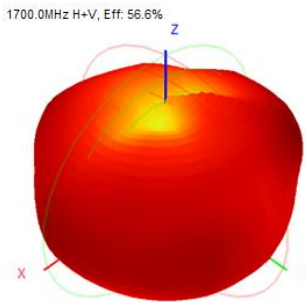
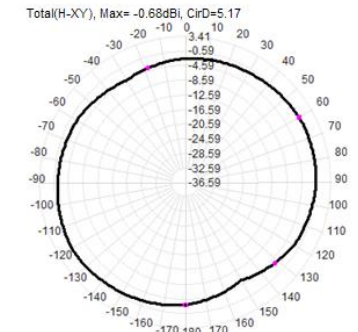
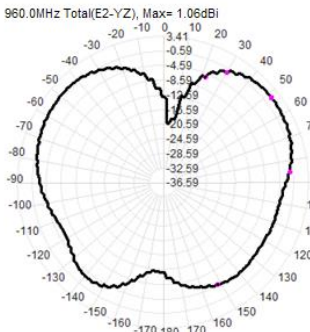
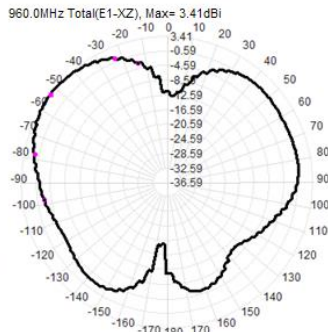
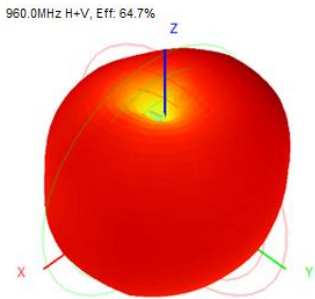
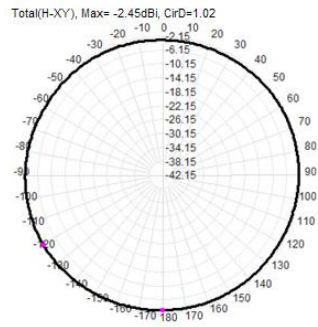
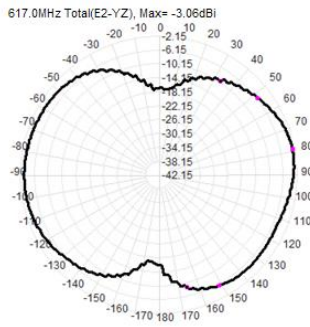
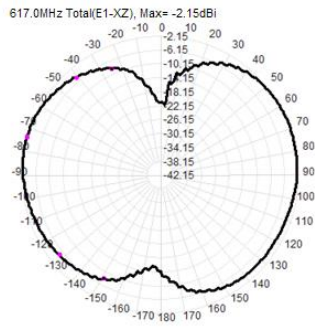
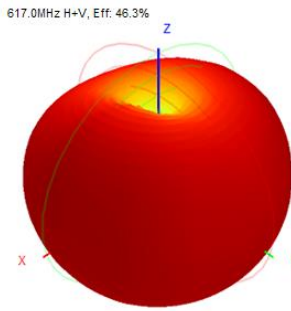
Frequency ID	10	11	12	13	14	15	16	17	18
Frequency (MHz)	1575.0	1700.0	1825.0	1950.0	2075.0	2200.0	2325.0	2450.0	2575.0
Gain (dBi)	2.60	2.14	3.73	3.70	3.98	3.96	3.69	3.64	3.60
Efficiency (%)	61.17	56.56	70.94	68.09	66.66	72.63	66.91	64.92	62.97

Frequency ID	19	20	21	22	23	24	25	26	27
Frequency (MHz)	2700.0	4400.0	4500.0	4600.0	4700.0	4800.0	4900.0	5000.0	5100.0
Gain (dBi)	3.54	4.51	4.99	4.40	5.10	5.03	4.63	5.05	4.95
Efficiency (%)	60.63	66.83	70.89	59.96	69.99	70.97	62.80	67.76	65.11

Frequency ID	28	29	30	31	32	33	34	35	36
Frequency (MHz)	5200.0	5300.0	5400.0	5500.0	5600.0	5700.0	5800.0	5900.0	6000.0
Gain (dBi)	4.57	4.26	4.95	4.98	5.32	4.43	5.21	4.66	4.11
Efficiency (%)	61.44	57.93	69.48	67.46	72.07	63.87	70.17	57.95	48.22

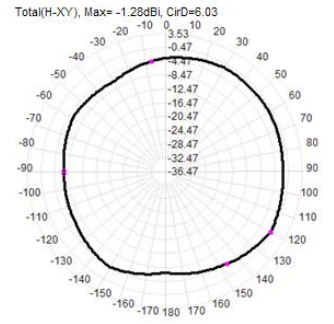
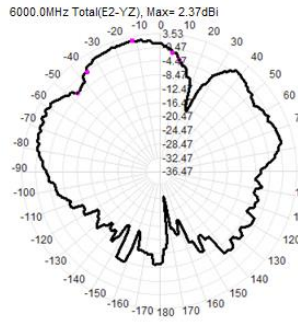
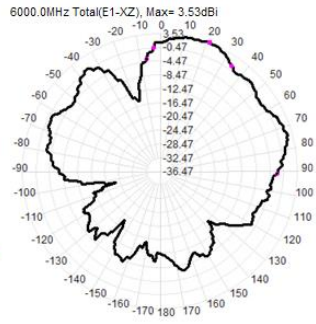
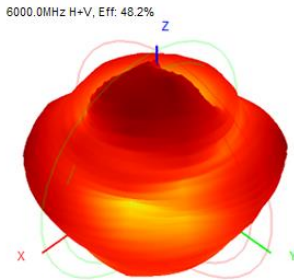
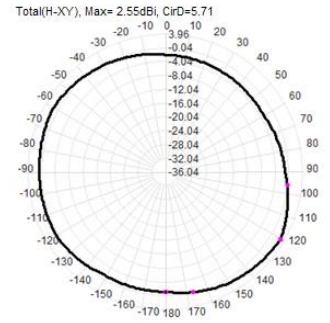
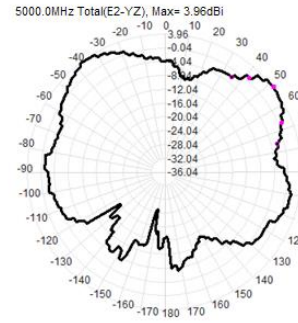
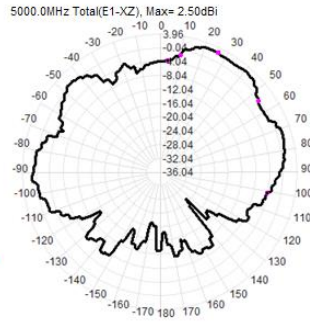
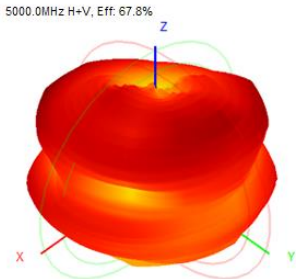
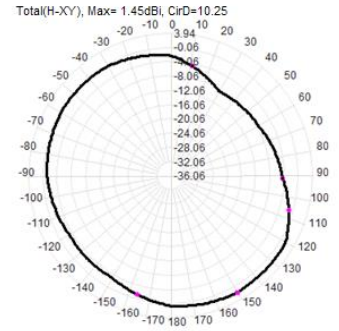
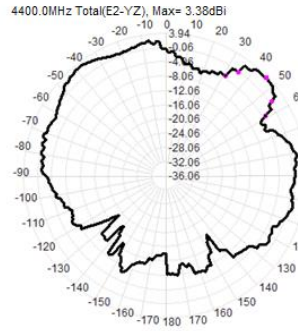
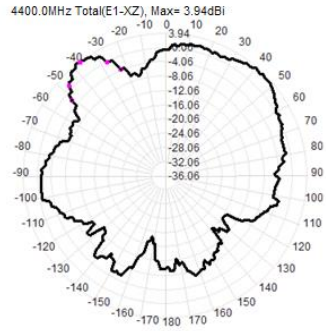
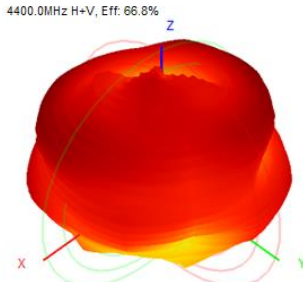
Product Number: AB0660-5001SM-2M

Product Name: Antenna



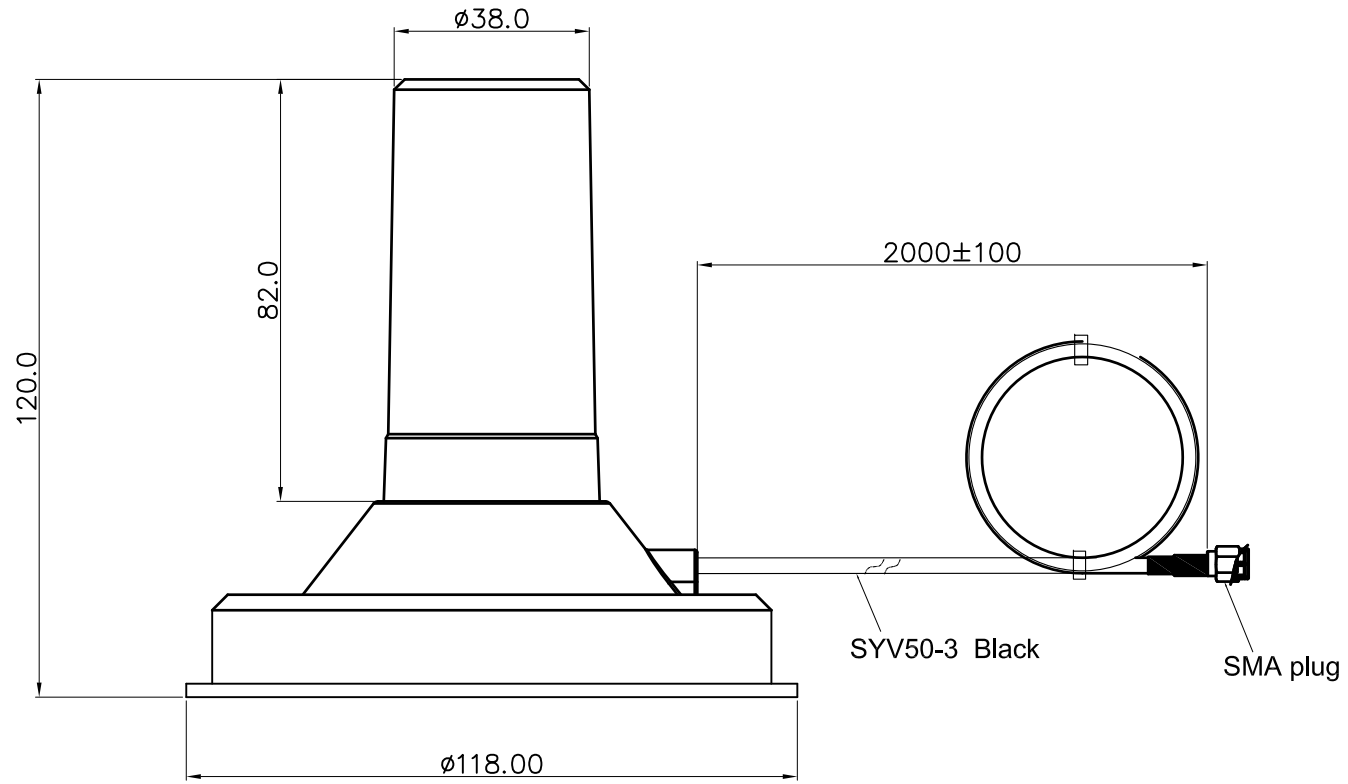
Product Number: AB0660-5001SM-2M

Product Name: Antenna




HF   
 RoHS   
 REACH   
**CONFIDENTIAL**

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



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

4		SMA公头公针	Cu	镀金	1
4		HSTUBE	EVA	Black	1
3		Coaxial Cable		SYV50-3 Black	1
2		外壳	PA66+30%GF	Black	1
1		磁盘底座	ABS+磁铁	黑色, 底面强磁	1
No.	Part Number	Name	Material	Finish	Q'ty

 **Tengxiang Electronics Co., Ltd.**

TITLE: 600-960/1710-6000MHz ANTENNA

PART NO.: AB0660-5001SM-2M      CUSTOMER P/N: /

APP BY	CHK BY	RF BY	DES BY	UNITS: mm SCALE: 1/1 REVISION: A	Tolerance
YTX 2022.11.11	YCX 2022.11.11	WJ 2022.11.11	HC 2022.11.11		X.X ±0.5 X.XX ±0.2 X° ±1

# 產品包裝規範

## PACKING CRITERION

Date: 2022.11.11

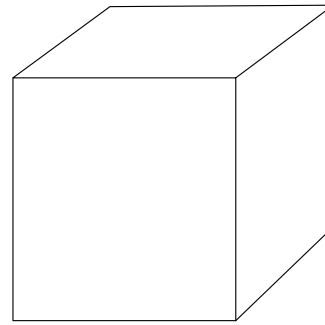
Page: 1 of 1

Part Number : AB0660-5001SM-2M	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag。

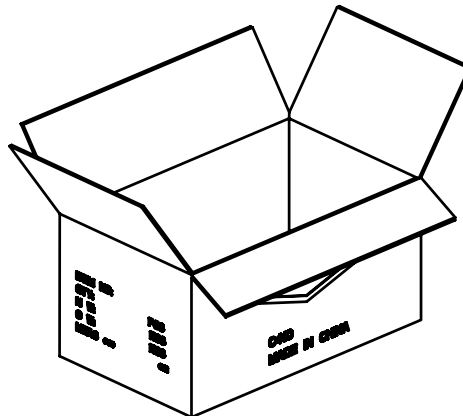


1pcs/ PE bag



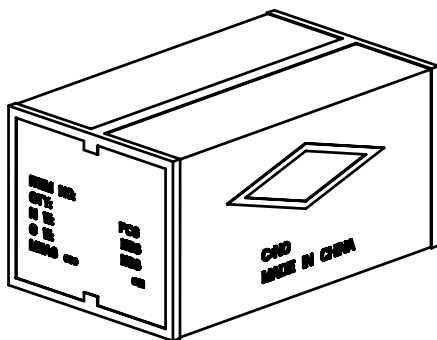
1pcs/BOX

2.PACKING。

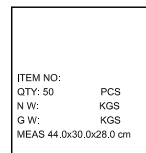


30 PCS/CARTON

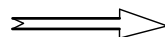
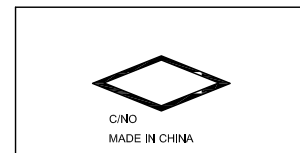
3. SEALING。



SIDE



FRONT



APPROVED BY: WJ

CHECKED BY: YCY

DESIGNED BY: HC