



承 认 书

APPROVAL SHEET

客户名称 Customer Name TCL

产品型号 Product Model PB OTG 2

客户料号 Customer P/N

规格描述 Specifications BT ANT

南斗星料号 Southstar P/N 3. N204. 0453

制作日期 Production date 2025. 4. 14

制作版本 Revision 4. 0

南斗星 (Southstar)		
编制 (FICTION)	品质 (DQE)	研发 (R&D)
客户 (Customer)		
采 购 (PUR)	品质 (QC)	研发 (R&D)

制造厂商：南斗星科技香港有限公司 (Manufacturer:South Star Technology Hong Kong Co., Ltd)

办公地址：深圳市宝安区福海街道新和社区宝安大道 6099 号星港同创汇天枢座 803 (Office Address: Room 803, Xinggang Tongchuang Hui Tian

Shu Building, No. 6099 Bao'an Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen)

制造地址：广东省东莞市虎门镇赤岗南坊一路 3 号 (Manufacturing address: No. 3, Chigang Nanfang 1st Road, Humen Town, Dongguan City,

Guangdong Province)

电话 (Telephone)：0755-27474071 0769-88086190

网站 (website)：//www.southstar-tech.com



承认书变更履历

Confirmation of Change of Resume

版本 version	日期 date	变更描述 Change description	备注 notes
1.0	2025.1.14	初版 First edition	
2.0	2025.2.21	优化天线 Optimize antenna	
3.0	2025.3.12	更改线长 Change line length	客户需求 customer demand
3.0	2025.4.14	优化天线 Optimize antenna	



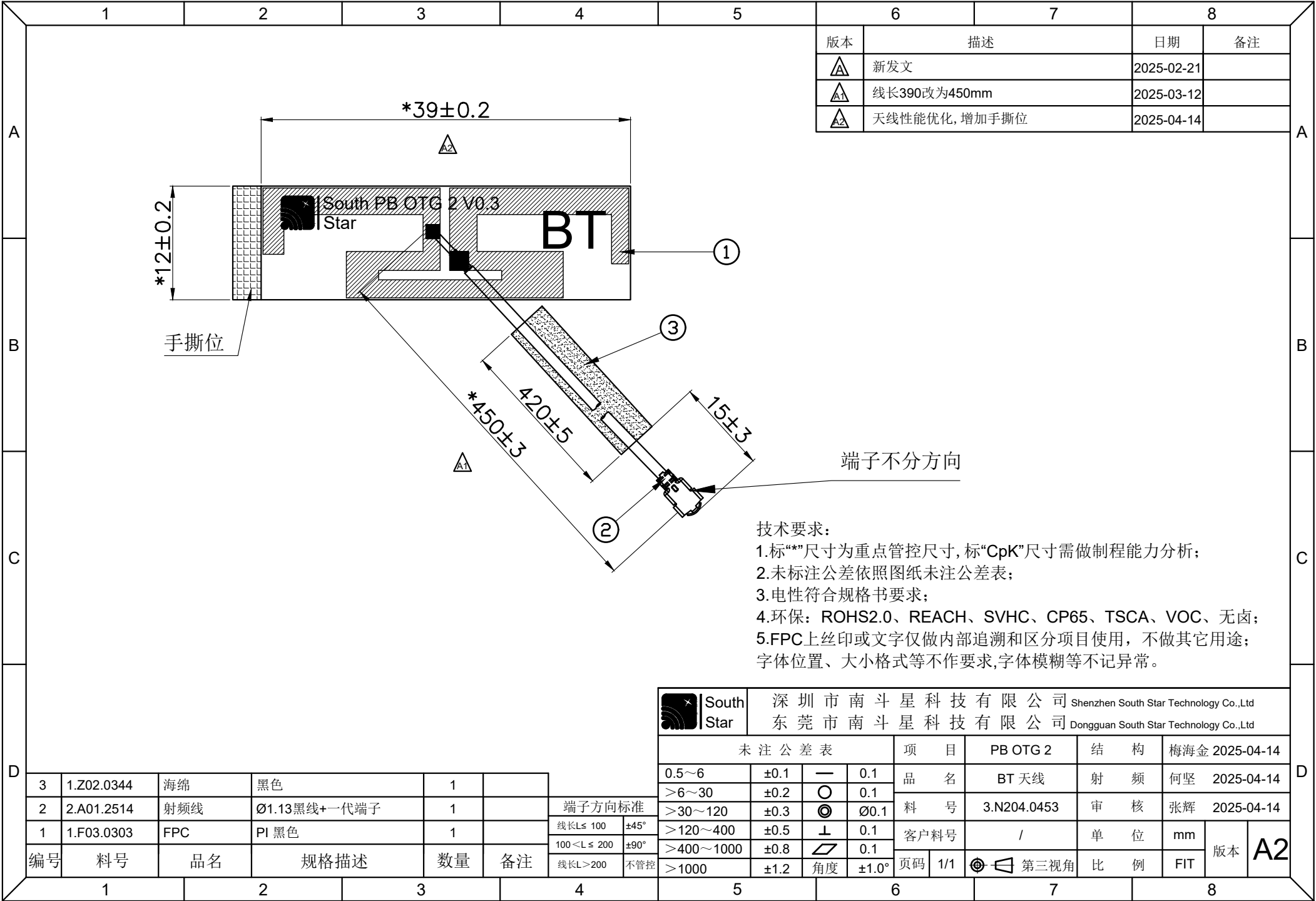
目 录

Index

一、封面 (Cover)	1
二、版本记录 (Colophon)	2
三、目录 (Index)	3
四、基本参数 (The basic parameters)	4
五、工程图纸 (Product Drawing)	5
六、测试设备 (Test Equipment & Conditions)	6
七、测试报告 (Test Report)	7-9
八、天线装配 (Antenna assembly)	9
九、包装方式 (Packing method)	10

基本参数 (The basic parameters)

A. 电性能Electrical Characteristics	
Frequency 频率	2400MHz~2500MHz
VSWR 电压驻波比	< 2
AVG. Efficiency 效率	>50%
Impedance 阻抗	50 Ohm
Polarization 极化	Linear
Peak Gain 最大增益	2.26dBi
Antenna type 天线类型	PIFA
B. 材料&物理性能Material & Mechanical Characteristics	
射频材料 Material of Radiator	FPC Black
射频线类型 Cable Type	1.13mm Black
接头类型 Connector Type	1 代
C. 环境 Environmental	
工作温度 Operation Temperature	- 30° C ~ + 65° C
存放温度 Storage Temperature	- 40° C ~ + 70° C



测试设备 (Test Equipment & Conditions)

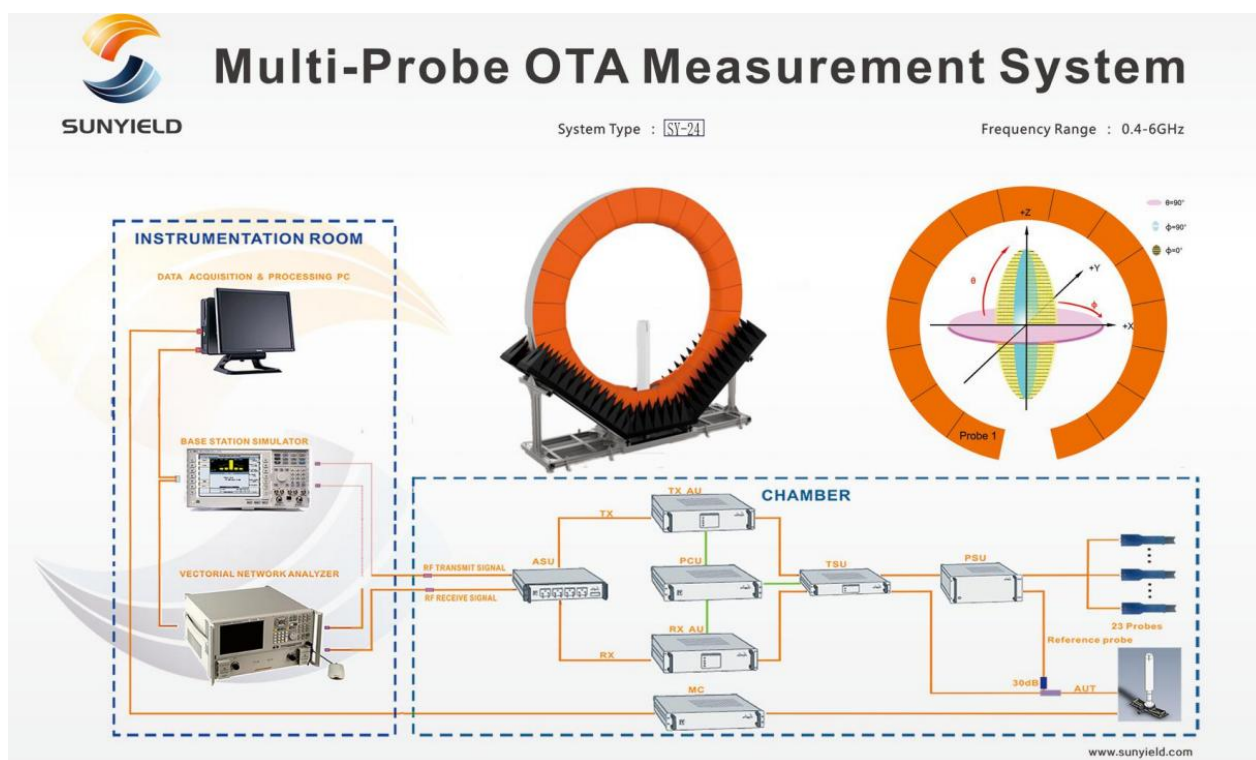
1. 网络分析仪 NetWork Analyzers:

Keysight E5071C

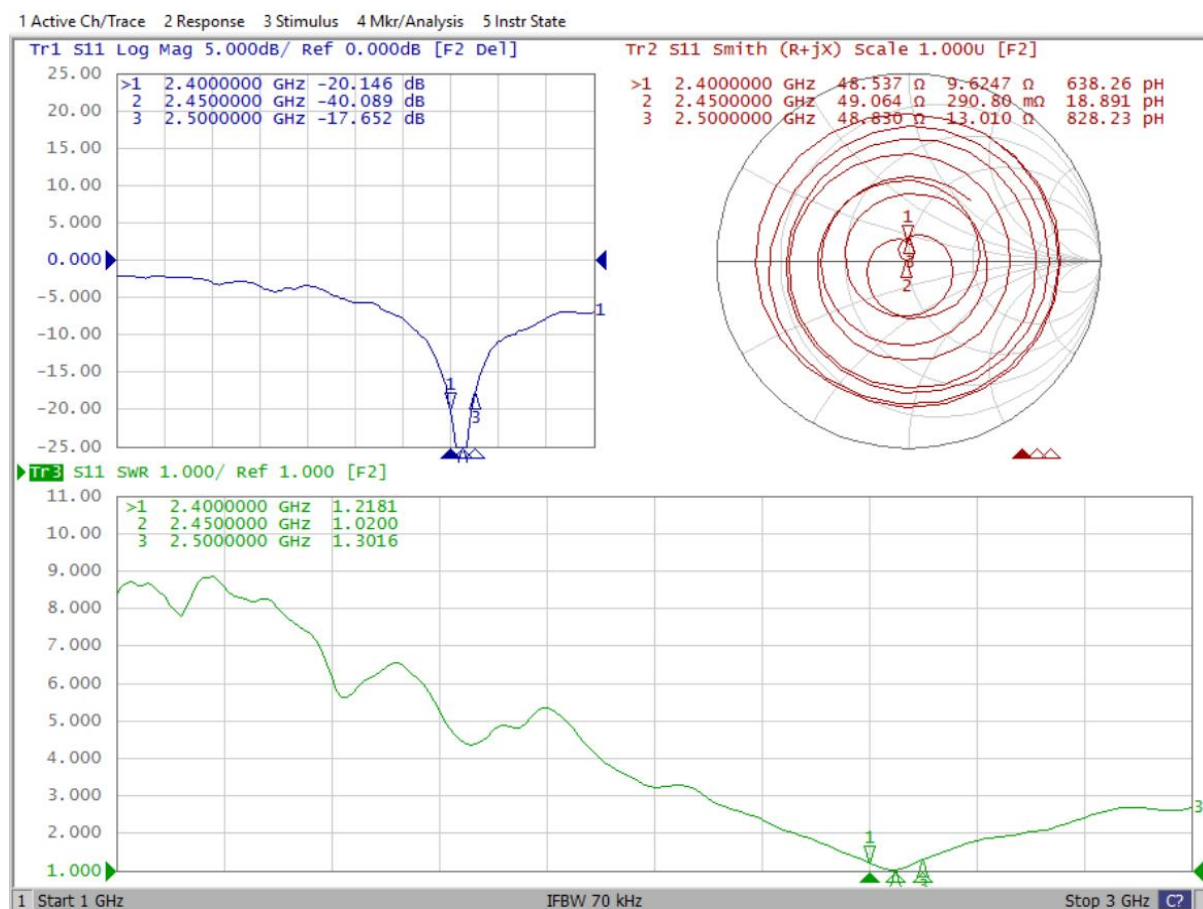
2. 综合测试仪 Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D 暗室测试系统 3D Chamber Test System:



天线阻抗Antenna Impedance: S11

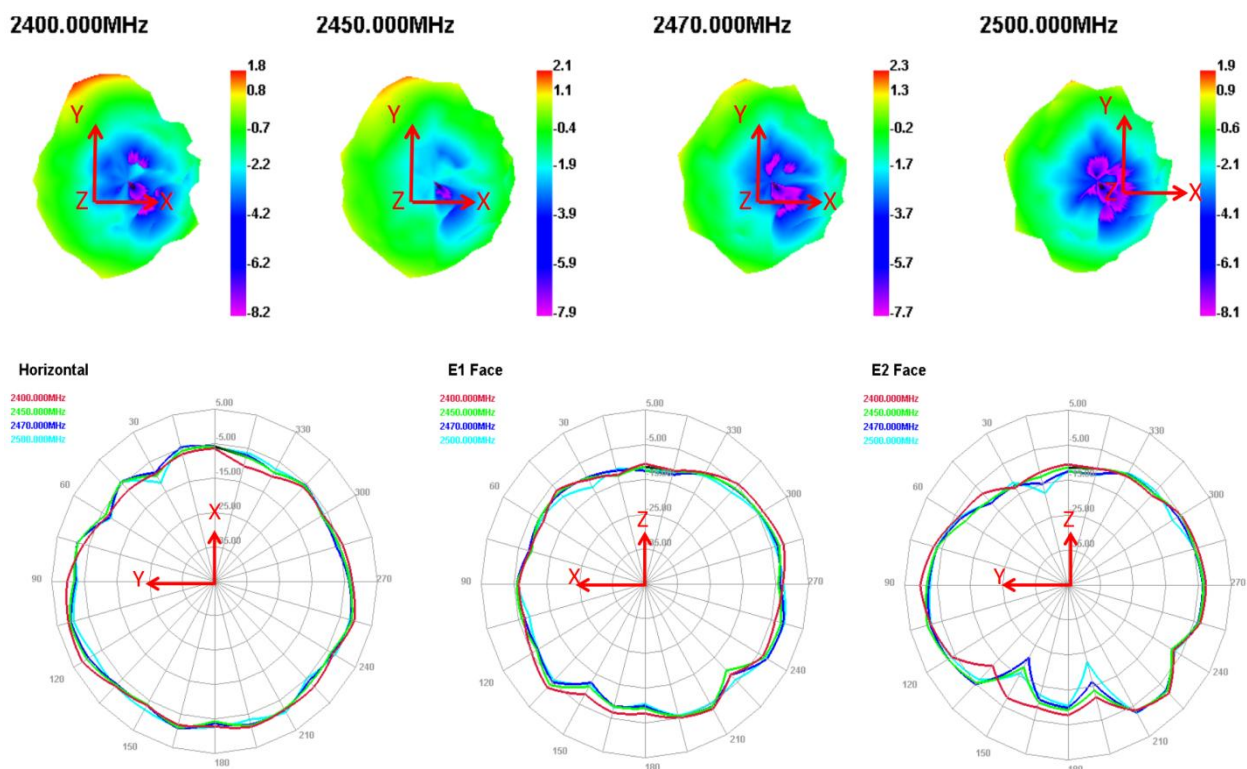


效率&增益Efficiency & Gain:

Freq (MHz)	Effi (%)	Peak Gain (dBi)
2400	56.77	1.84
2410	57.53	1.71
2420	57.25	1.88
2430	58.21	2.04
2440	57.15	2.11
2450	57.45	2.13
2460	56.33	2.24
2470	57.83	2.26
2480	56.45	2.16
2490	55.88	2.07
2500	54.02	1.85

avg. 56.81

天线3D&2D方向图Antenna 3D & 2D pattern:



隔离度Isolation:





日期：2025-02-21

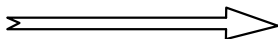
page: 1 of 1

成品名称：PB OTG 2 BT天线

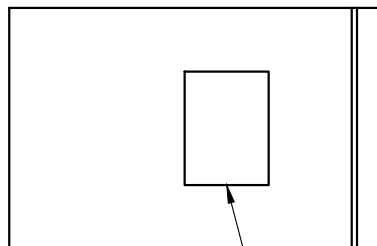
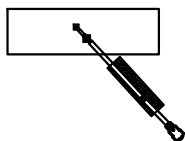
版本：A

客户：

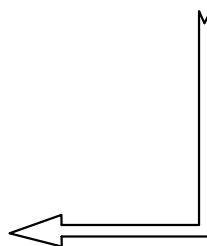
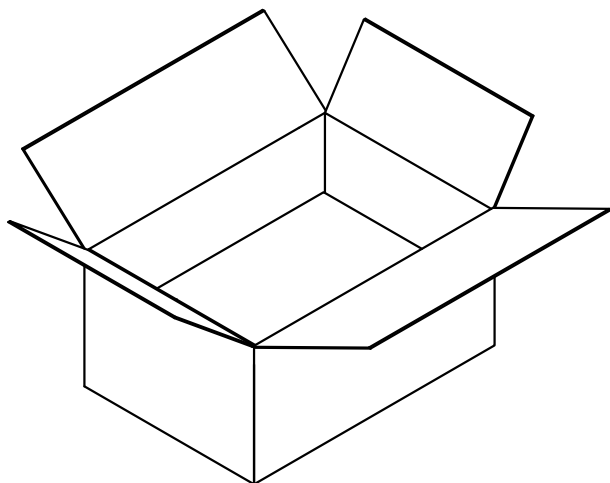
一：成品天线



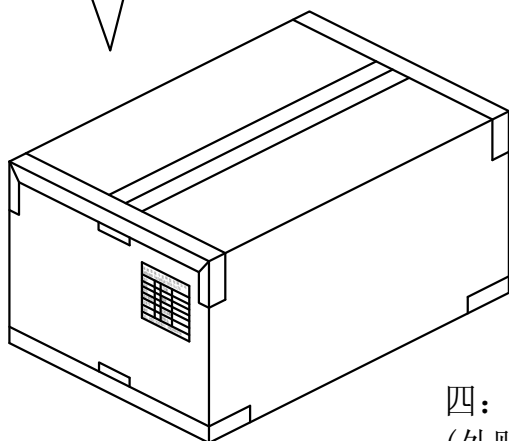
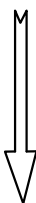
二：装袋，每PE袋装20PCS产品。



标贴



三：装箱(以实际包装为准)。



四：封箱，外箱贴我司生产标签
(外贴RoHS、无铅等标识)。

制作：梅海金

审核：张辉