



深圳市锦鸿无线科技有限公司
JINHONG COMMUNICATIONS TECHNOLOGY
产品规格书Product Specification

<p>产品描述 Part Description</p>	<p>客户：广东长虹 Vendor： 产品名称：R-射频天线 Product Name：R-RF Antenna 物料代码： Part NO：</p>	<p>规格型号：TX-DM300BD113JH63M Description：TX-DM300BD113JH63M 所承认项目： Project： 版本：A1 Version：</p>
<p>附件 Attachments</p>	<p> <input checked="" type="checkbox"/> 规格书 Spec <input checked="" type="checkbox"/> CPK 报告 Cpk Report <input checked="" type="checkbox"/> 制造流程图 QC Flow Chart <input checked="" type="checkbox"/> 包装方式 Packing Content <input checked="" type="checkbox"/> 工程图面 Drawing <input checked="" type="checkbox"/> 关键尺寸报告 FAI Report <input checked="" type="checkbox"/> 成型条件 Molding conditions <input checked="" type="checkbox"/> C3C 证书 3C Certificate </p>	<p> <input checked="" type="checkbox"/> 样品 Sample <input checked="" type="checkbox"/> 可靠性测试报告 Reliability Report <input checked="" type="checkbox"/> 材质证明书 Material Verification Sheet <input checked="" type="checkbox"/> 物料检验标准 Material inspection standard <input checked="" type="checkbox"/> ROHS 报告 ROHS Repot <input type="checkbox"/> 安规报告 Safety Report </p>
<p>供应商签核 Vendor</p>	<p>拟制：胥万芳 Design: 审核：郑翠兰 Check: 批准：彭发辉 Approval:</p>	
<p>技术确认 Technology check</p>	<p> 结构意见/签名： Mechanical 工业/包材设计意见/签名： ID 品质意见/签名： DQE/SQE 硬件意见/签名： Hardware 项目意见/签名： Market </p>	
<p>最终确认 Final check</p>	<p>质量策划： Quality planning ROHS: <input type="checkbox"/> Rohs 物料 <input type="checkbox"/> 非 Rohs 物料</p>	
<p>承认条件 Approval condition</p>	<p> <input checked="" type="checkbox"/> 承认 Approved <input type="checkbox"/> 条件承认 Condition approved <input type="checkbox"/> 临时承认 Temporary approved <input type="checkbox"/> 拒绝承认 Reject 需满足条件: _____ 限量 _____ PCS 采购 </p>	
<p>审批 Approval by</p>	<p>研发总工（技术总监）： RD Leader(Technology Director)</p>	<p>质量总监： Quality Director</p>
<p>分发部门 Distribute</p>	<p> <input type="checkbox"/> IQC <input type="checkbox"/> 采购（供应商） <input type="checkbox"/> 样品管理/文控 <input type="checkbox"/> 外协厂 <input type="checkbox"/> 其它 </p>	

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2 说明 instructions

这份报告包含天线电性能测试的若干设备、测试环境和测试结果，以及天线的结构图纸和检验报告. 以下为天线图片。

This report includes several equipment, test environment and test results for the electrical performance of the antenna, as well as structural drawings and inspection reports of the antenna. Below is a picture of the antenna.



3 产品技术指标 Product specifications

电性能指标 Electrical Specifications	
频率范围 Frequency Range (MHz)	2400-2500&5100-5850
增益 Gain (dBi)	2400-2500@2.72dBi&5100-5850@1.51dBi
电压驻波比 VSWR	≤2.2
输入阻抗 Input Impedance (Ω)	50
极化方式 Polarization	Vertical
最大功率 Maximum input power (W)	2
接头型号 Input connector type	
机械指标 Mechanical Specifications	
天线尺寸 Dimensions (mm)	30*11.1*6.5
天线重量 Antenna weight (kg)	2.5g
天线颜色 Antenna color	银白色

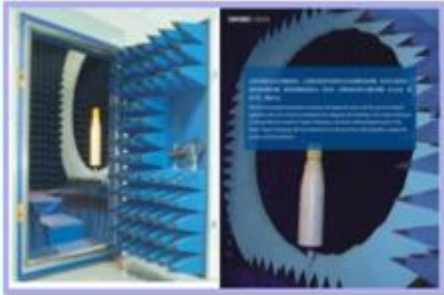
4 耐久性测试

1	<p>盐雾试验 SAIT SPRAY TEST</p>	<p>盐水喷雾试验：依 GB1266-86 标准蒸馏水： 一次蒸馏PH6.5~7 喷雾量：1.4me80cm² /h 压缩空气压力： 1Kgf/ cm² 试验相对度：98° 温度：45° ~47° 压力温度：35° 测试时间：24hr Brine spray test: distilled water according to GB1266-86 standard: single distillationPH6.5~7 Spray volume: 1.4me80cm²/ H compressed air pressure: 1kgf / cm² Test Relativity: 98 ° Temperature: 45 ° ~ 47 ° Pressure temperature: 35 ° Test time: 24hr</p>	<p>所有规格变华 范围初始值 30% All characteristic range is 30% of the initial value</p>
2	<p>高温试验 HEAT TEST</p>	<p>在 85+2℃环境中放 96 小时，再放在正常环境中 30 分钟后进行测试 85+2℃ for 96 hours, after keep in normal condition for 30mim the to test.</p>	
3	<p>中温试验 HUMIDITY TEST</p>	<p>在 40+2℃ 90-95%RH 环境中放 96 小时，再放在 正常环境中 30 分钟后进行测试40+2℃ 90-95%RH for 96hours, after keep in normal condition for 30mim the to test.</p>	
4	<p>低温试验 COLD TEST</p>	<p>在-40+2℃ 环境中放 96 小时，再置放正常环境中 30 分钟后进行测试 -40+2℃ for 96hours, after keep in normal condition for 30mim the to test.</p>	

5 电气性能测试 Electrical performance test

5.1 测试设备 Test equipment and environment

测试设备



SATIMO-24



ETS



模拟人头手



安捷伦8960



安利MT8820C



CMW500



安捷伦E5071C

测试系统

SATIMO—24

ETS

测试环境

温度：22℃ ± 3℃

湿度：50% ± 15%

有源测试

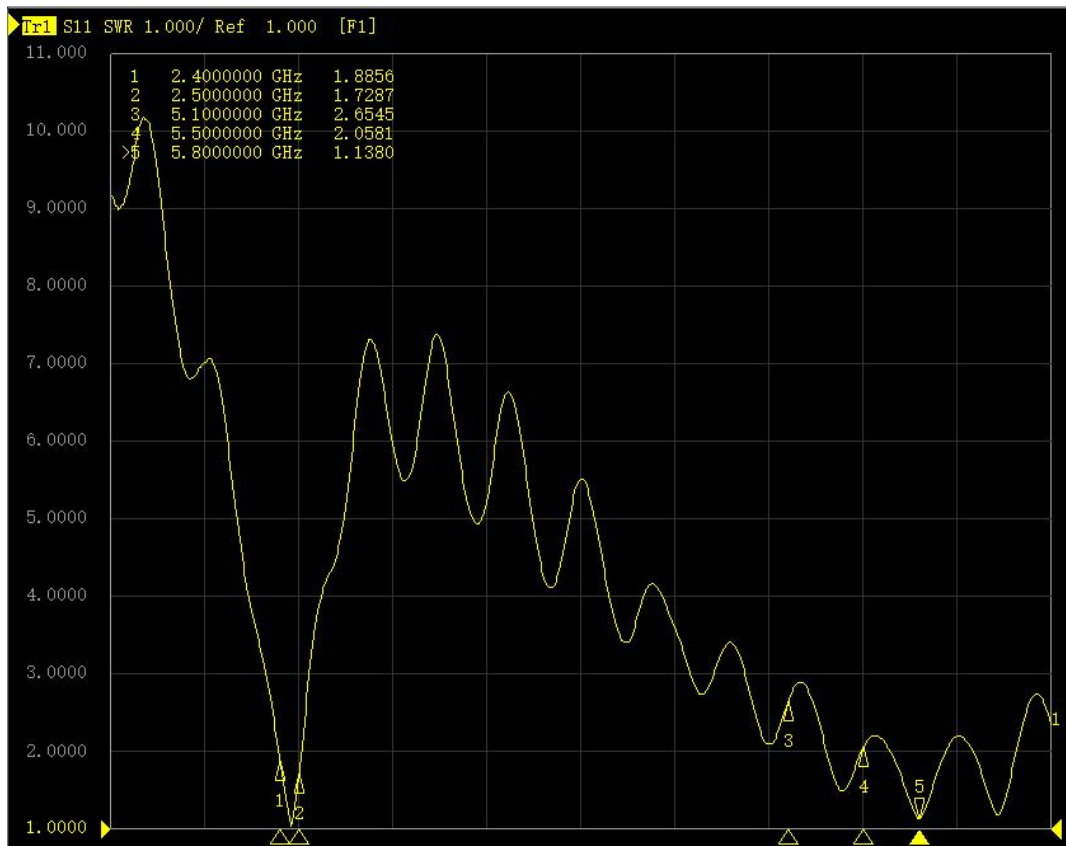
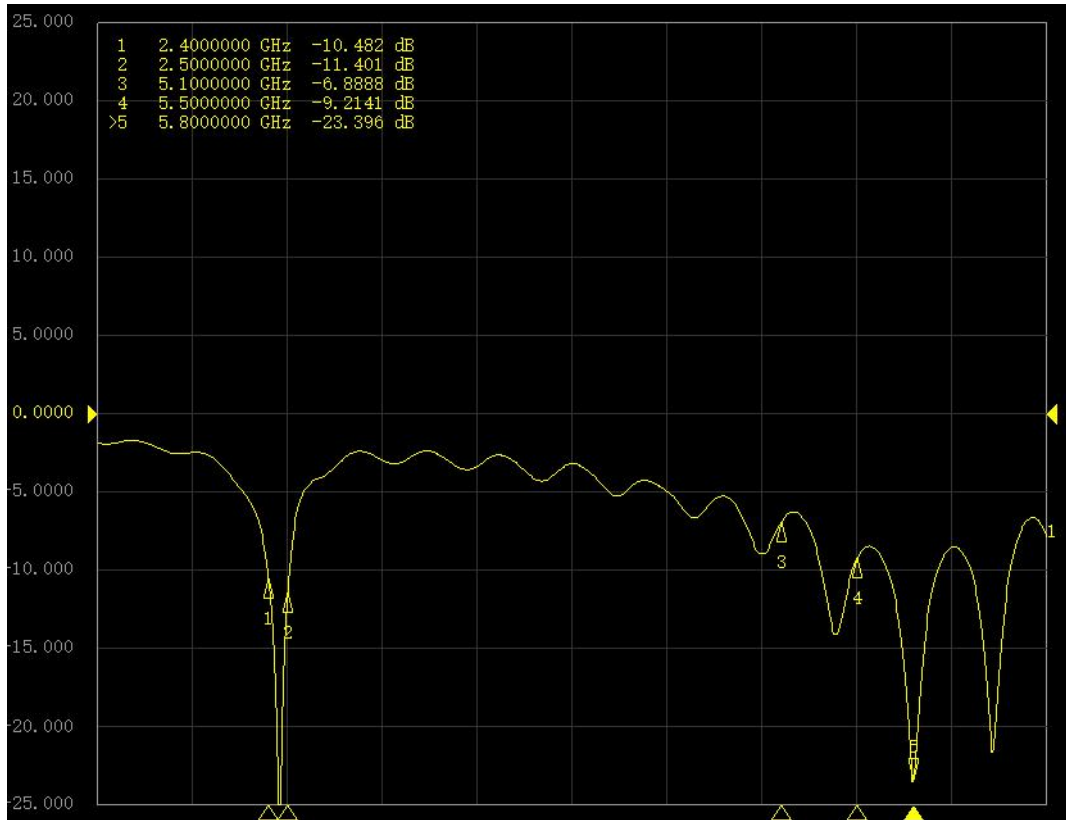
支持2G/3G/4G

BT/WIFI/GPS

无源测试

400MHZ—6G

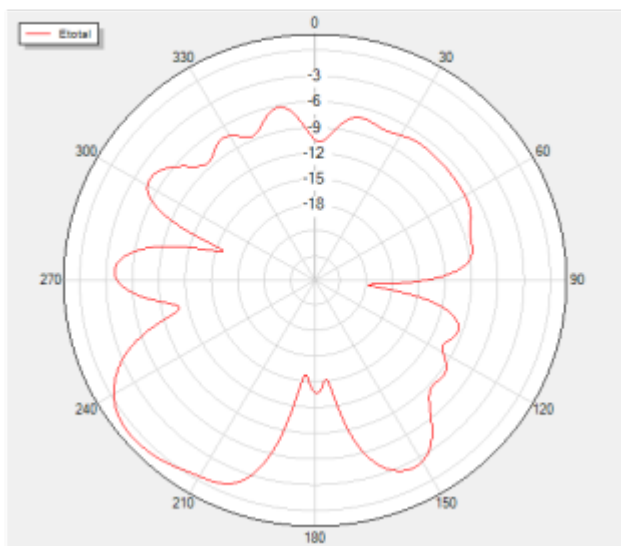
5.2 天线回损及驻波 Antenna Return Loss(RL) and SWR



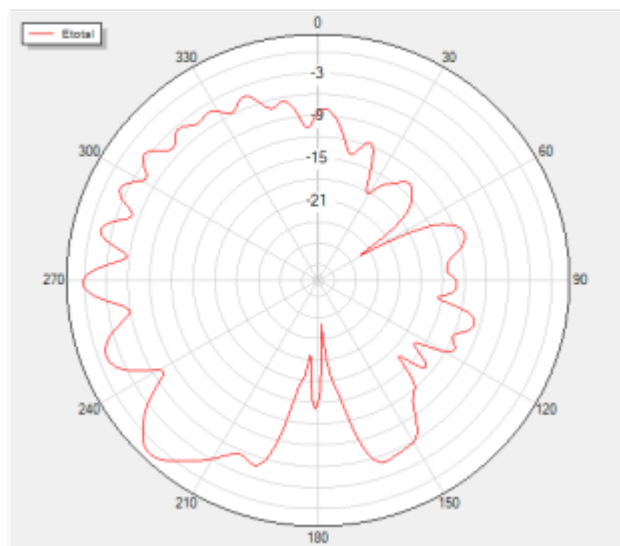
5.3 天线无源数据 Antenna passive test data

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Efficiency (%)	Efficiency (dB)
1	2400.0	2400.00	2.63	49.3%	-1.84
2	2410.0	2410.00	2.72	49.7%	-2.00
3	2420.0	2420.00	2.46	53.9%	-1.94
4	2430.0	2430.00	1.94	54.2%	-1.92
5	2440.0	2440.00	2.00	52.3%	-2.05
6	2450.0	2450.00	1.87	53.1%	-1.98
7	2460.0	2460.00	1.81	49.6%	-2.01
8	2470.0	2470.00	2.03	50.6%	-2.17
9	2480.0	2480.00	2.07	48.6%	-2.31
10	2490.0	2490.00	2.31	48.3%	-2.50
11	2500.0	2500.00	2.64	49.4%	-2.50
17	5150.0	5150.00	0.98	42.8%	-5.49
18	5170.0	5170.00	0.55	43.1%	-5.21
19	5190.0	5190.00	0.46	42.5%	-5.23
20	5210.0	5210.00	0.75	41.2%	-5.29
21	5230.0	5230.00	1.28	43.8%	-5.72
22	5250.0	5250.00	1.18	44.0%	-6.05
23	5270.0	5270.00	0.67	44.0%	-5.47
24	5290.0	5290.00	1.01	43.8%	-4.71
25	5310.0	5310.00	1.09	47.5%	-3.72
26	5330.0	5330.00	0.84	46.1%	-3.35
27	5350.0	5350.00	1.51	47.9%	-3.20
28	5370.0	5370.00	1.09	47.2%	-3.80
29	5390.0	5390.00	0.55	45.1%	-4.31
30	5410.0	5410.00	0.85	45.8%	-4.96
31	5430.0	5430.00	0.41	42.2%	-4.60
32	5450.0	5450.00	0.63	41.3%	-4.37
33	5470.0	5470.00	0.80	41.1%	-4.72
34	5490.0	5490.00	0.39	41.3%	-5.05
35	5510.0	5510.00	0.92	45.9%	-5.42
36	5530.0	5530.00	1.17	47.7%	-5.29
37	5550.0	5550.00	1.48	50.4%	-4.55
38	5570.0	5570.00	1.20	51.6%	-3.72
39	5590.0	5590.00	1.17	54.3%	-2.88
40	5610.0	5610.00	1.50	54.8%	-2.96
41	5630.0	5630.00	1.37	51.5%	-3.57
42	5650.0	5650.00	1.25	51.2%	-3.86
43	5670.0	5670.00	1.00	50.8%	-3.87
44	5690.0	5690.00	0.88	49.5%	-3.19
45	5710.0	5710.00	1.22	50.6%	-2.94
46	5730.0	5730.00	0.87	49.2%	-3.15
47	5750.0	5750.00	0.81	48.7%	-3.48
48	5770.0	5770.00	0.75	46.1%	-3.28
49	5790.0	5790.00	0.72	44.2%	-3.32
50	5810.0	5810.00	0.51	44.5%	-3.40
51	5830.0	5830.00	0.50	43.7%	-3.33
52	5850.0	5850.00	0.48	42.6%	-3.57

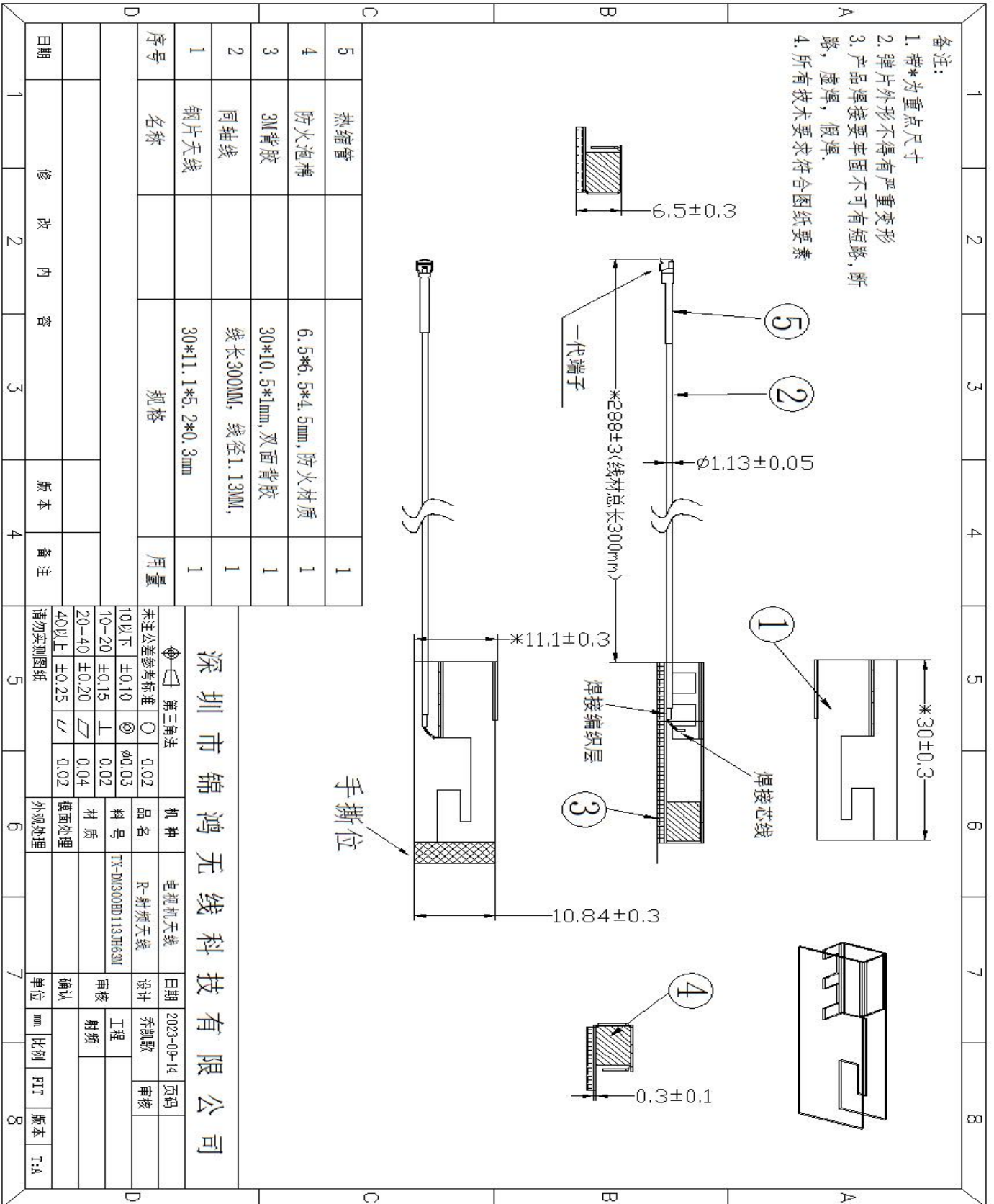
Phi=0 Freq=2410MHz



Phi=0 Freq=5350MHz



6 工程图纸 Engineering drawings



7安装说明 Installation instructions 客户配机安装

Insert the antenna pin into the corresponding socket of the motherboard

8 包装方式 Packing method

Inside:

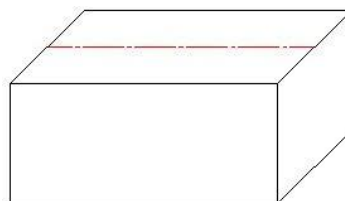
PE bag packaging, 50pcs / bag



PE bag size: 30*180

External :

carton packaging, 100 bags / box



carton packaging size 330*270*220