



SPECIFICATION FOR APPROVAL

Specifications/Description: WIFI MAIN,-DN75-140H-DN-FPC-Black- Four generations MHF-1.13 Black Cable L=250mm

Material code:

Manufacturer part number: SLEingB247970250

Supplier: DONGGUAN SLEing INTEL-TECH CO.,LTD

零件性质 ☒ 一般的 (STANDARD) ☐ 特别的 (指定的 or SPECIAL)

料 件 承 认 项 目 《执行标准（参考承认 check list）》			
承认事项		技术确认栏/时间	
外观是否符合整机要求	☐	ID 工程师:	
确认电性能, pin 定义, 功耗是否符合整机要求	☐	硬件工程师:	
确认物料是否符合整机 EMC/SAFETY/RF 要求	☐	RF 工程师:	
参考《物料承认 check list》机构部分确认	☐	结构工程师:	
驱动等确认是否符合整机要求	☐	驱动工程师:	
Thermal 确认是否符合整机要求	☐	散热工程师:	
确认是否满足整机 BIOS/EC 要求	☐	SW 工程师:	
确认是否满足整机的系统兼容性/可靠性测试	☐	DQA 系统工程师:	
环保审查记录（适用 ROHS 指令）	☐	环保工程师:	
确认供应商外观检验标准/关键工艺	☐	SQE 工程师:	
确认是否符合客户要求	☐	项目经理（PM）:	
FAI 全尺寸报告、CPK 报告、包装方式（package）、 单体可靠性报告等。	☐	CE 工程师:	
样品附 ☒ 研发 ☐ 品质 ☐ 采购 ☒ 供应商 ☐ 客户 ☒ 组装厂			
IQC 检验注意事项:			
版本	变更内容描述		变更日期
A	First Issue		2024.08.16
B	Screen change		2024.09.15
拟制	审核		



DONGGUAN SLEing INTEL-TECH CO.,LTD

SPECIFICATION APPROVAL SHEET

CUSTOMER _____

CUS PART NO _____

版次:

REV

_____X2

SPECIFICATION _____

2.4-2.5/5.15-5.85GHz

单重:

WIFI MAIN AntennaL=250mm(Ø1.13+MHF)

weight _____

SUP PART NO _____

SLEingB247970250

DATE _____

2024.12.06

SUP APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

CUS APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

DONGGUAN SLEing INTEL-TECH CO.,LTD

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DONGGUAN SLEing INTEL-TECH CO.,LTD

变更记录
MODIFICATION RECORD SHEET

(REV.)	(Modification date)	Summary of modification content	Signature	Approval
X1	2024.08.16	First Issue	Jerry	Jongrei
X2	2024.09.25	Screen change	Jerry	Jongrei

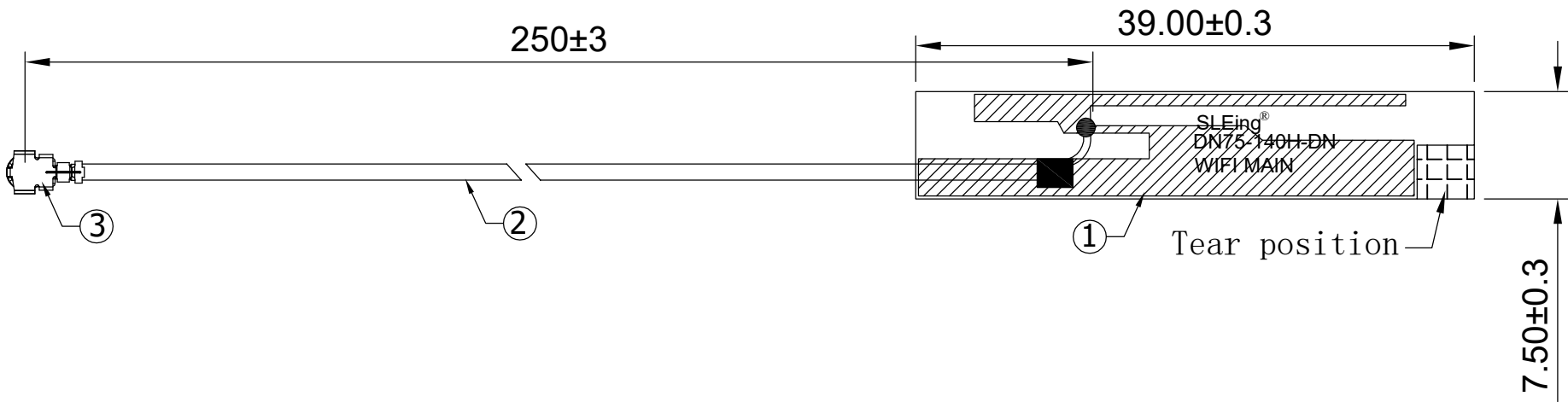
Spec Item

NO.	Project	Remark	Page
1	Spec Cover		1
2	MODIFICATION RECORD SHEET		2
3	Spec Item		3
4	Drawing		4
5	Test Reports		5
6	Antenna assembly diagram		6
7	S Parameter Test		7
8	Test Setup		8
9	Test Efficiency		9
10	Throughput test		10

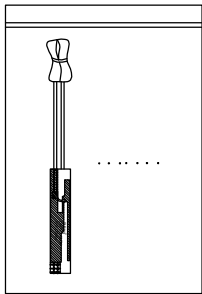
Give clear indication of:

1. The contents of the acknowledgement shall be arranged in order according to the items in the check sheet.
2. The number of copies of the acceptance letter shall be printed according to the customer's requirements, and the SGS report shall be stamped with the engineering seal.
3. All materials shall be confirmed by the customer. Any material/process/changes that may affect product quality and environmental quality must be re-sent to the customer for confirmation before import.
4. SGS report is valid for one year.
5. According to the contents attached to the actual acknowledgement, check the check form: "Yes" is provided, "no" is provided according to customer requirements.

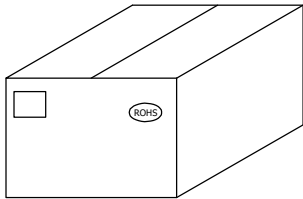
REV.	CONTENT	DATE
X1	First Sample	2024.08.16
X2	Screen change	2024.09.25



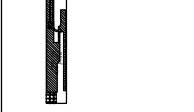
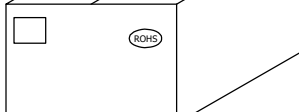
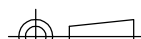
Specification:
Frequency Rang:2.4~2.5/5.15~5.85GHz
Return Loss:-10dB or less
VSWR:1.92 Max



50pcs/Bundle
Packing:100pcs/bag



外箱须贴ROHS标签与物料标签各1PCS

 					SLEing® DONGGUAN SLEing INTEL-TECH CO.,LTD			CUSTOMER			
PART NO											
					TITLE		WIFI MAIN ANTENNA				
					S.I P/NO		SLEingB247970250				
3	Connector	MHF Plug for Φ1.13 Cable		1		TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE	DRAWED	CHECKED	APPROVED
2	Cable	Φ1.13mm Coaxial Cable Black,50Ω		1	UNIT:mm	ANGLES ±0.5°	X. ±0.3	A4	JERRY	JERRY	Jongrei
1	PCB	FPCB,L39.0*W7.5*T0.4mm,Color:Black	300LSE Adhesive	1	SHEET: 1/1	0.XX ±0.05	XX. ±0.5				
NO	PART NAME	DESCRIPTION	REMARK	Q'TY	SCALE: 1/1	XXX. ±2.0					
8		7	6	5	4	3		2		1	

Test Reports

Electrical Properties	
Frequency	2.4-2.5/5.15-5.85GHz(Whole engine test)
Impedance	50 Ohm Nominal
V.S.W.R	1.92Max
Return Loss	-10dB Max
Radiation	Omni-directional
Gain(Peak)	2.4G: 2.02 dBi/5.8G: 3.45dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPC
Cable Type	Φ1.13mm Black
Operating Temp	-25℃-+75℃
Storage Temp.	-5℃-+30℃

天线组装图

Antenna assembly diagram

Device



Antenna

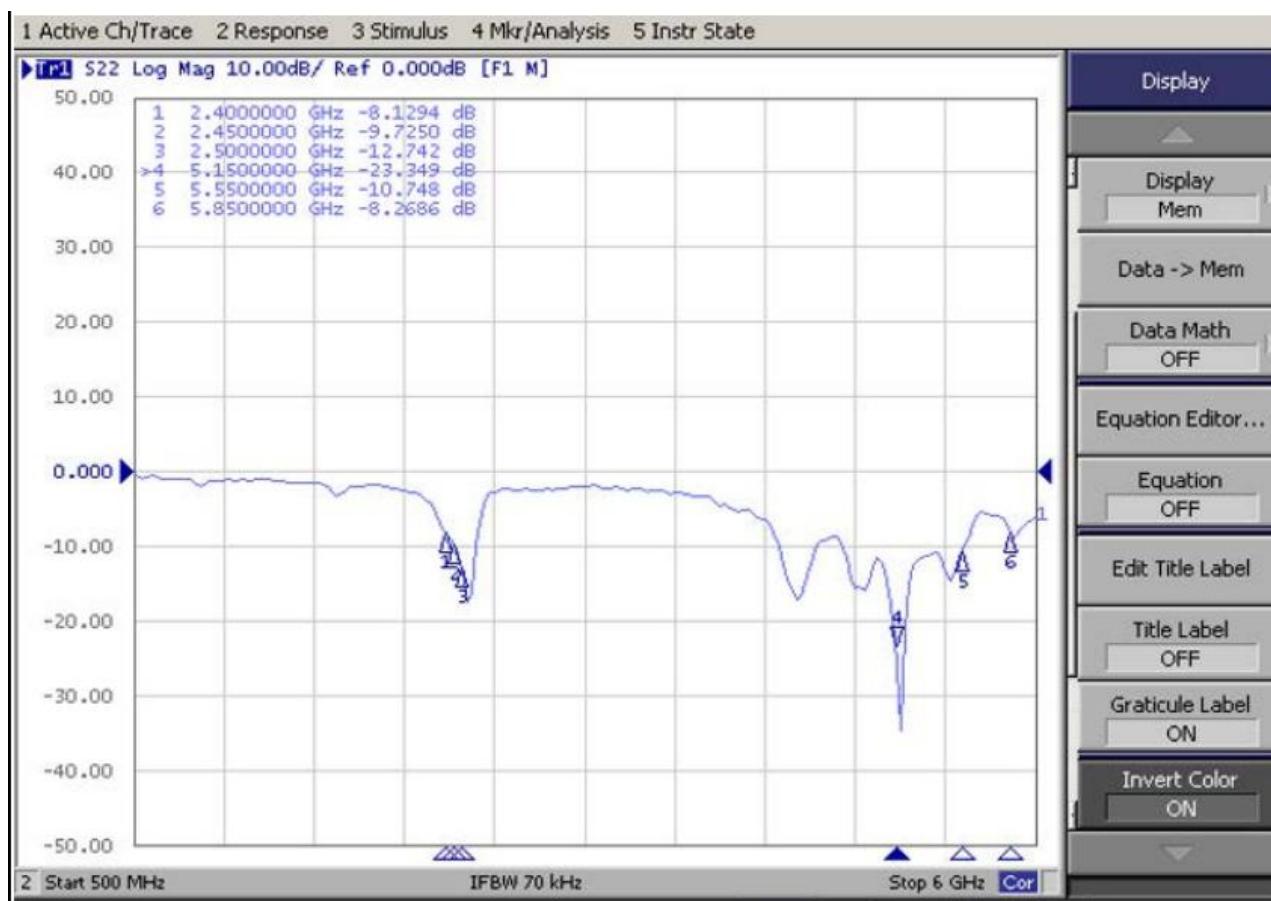


S Parameter Test

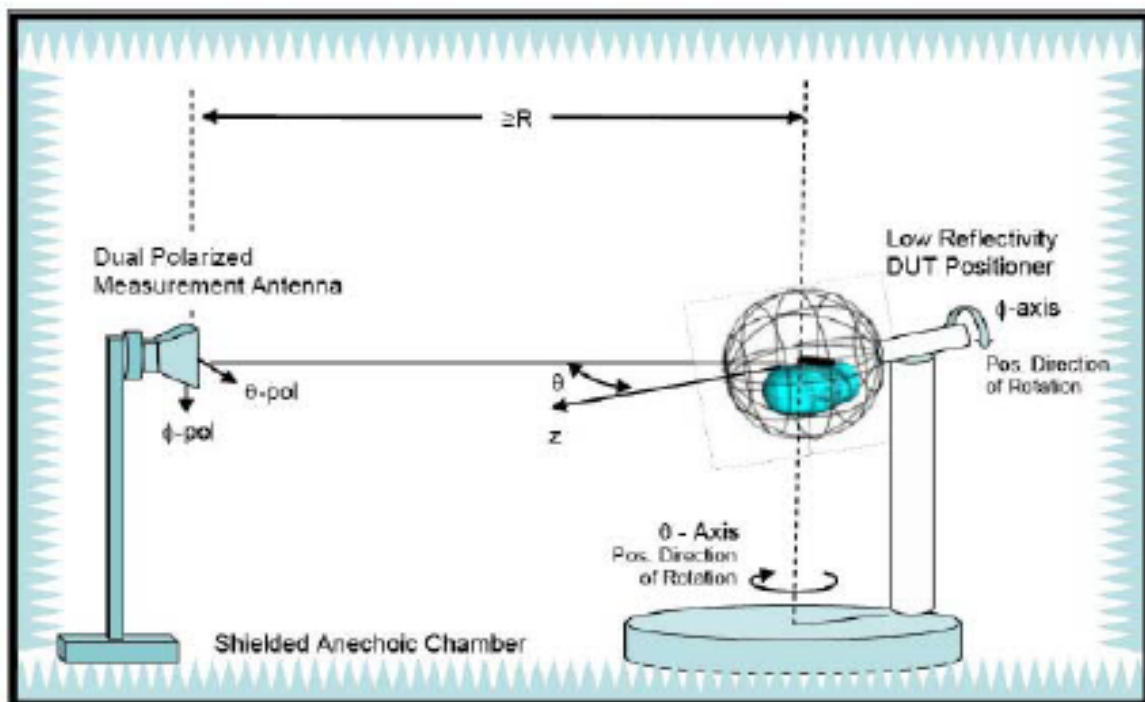
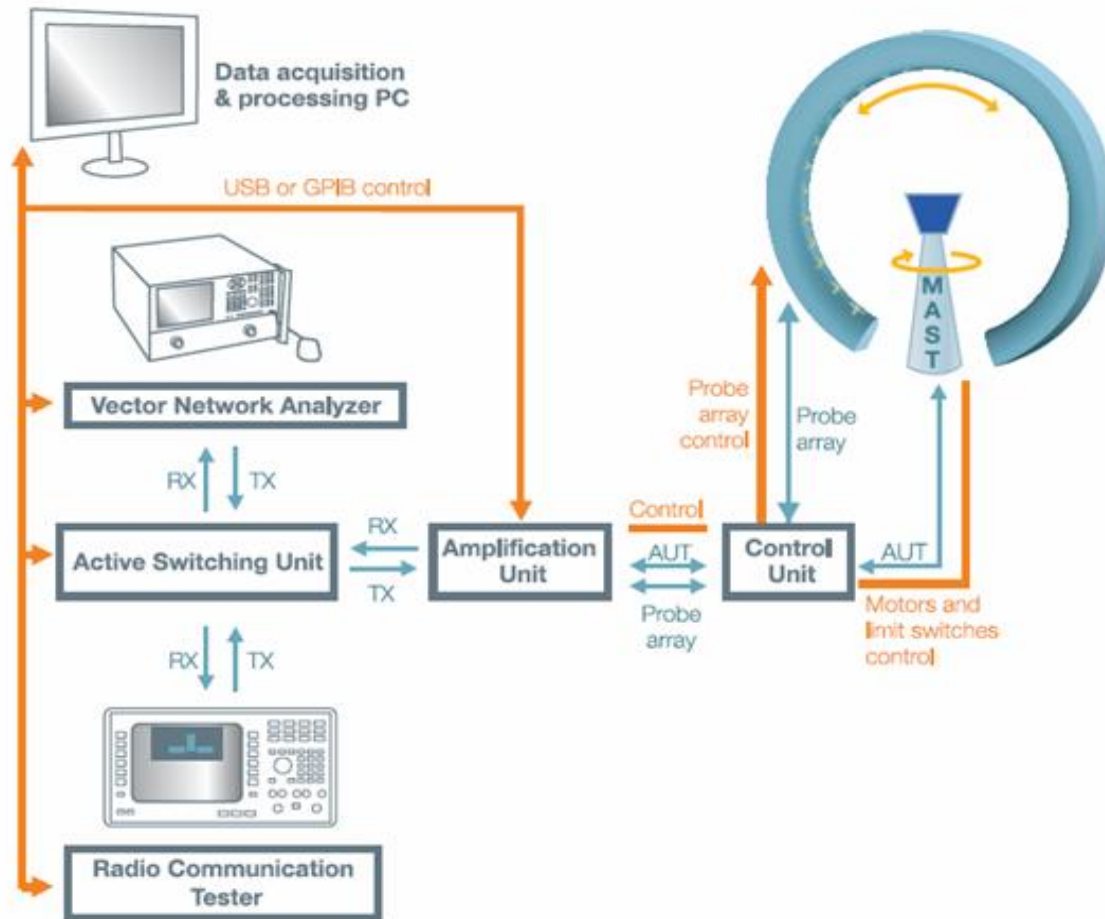
Agilent E5071C Network Analyzer



RF Antenna (Return Loss)



Test Setup



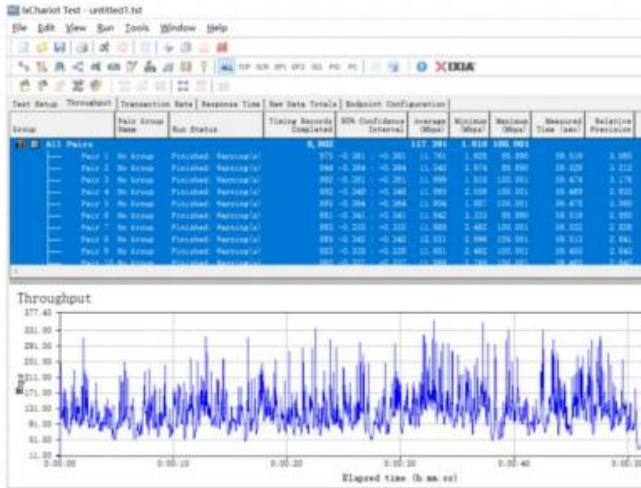


Test Efficiency

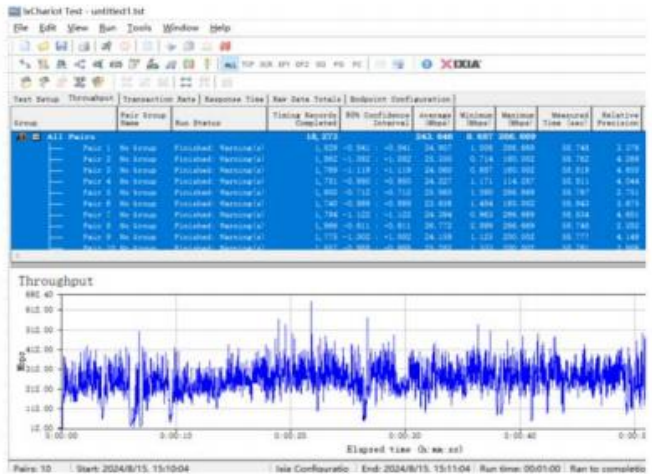
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Gain (dBi)	-1.04	-0.70	-0.04	0.37	0.62	0.77	0.84	1.13	1.45	1.72	2.02	3.45	3.07	2.58	2.39	2.39	2.46	2.14	1.41	1.55	0.80	-0.02	0.28	0.57	0.42	0.84
Efficiency (%)	16.17	17.75	18.57	19.72	20.97	21.89	23.63	24.70	25.27	26.93	27.16	28.57	28.20	21.72	20.84	21.72	23.42	23.82	22.33	20.39	15.98	14.94	13.30	12.61	13.39	14.04

Throughput test

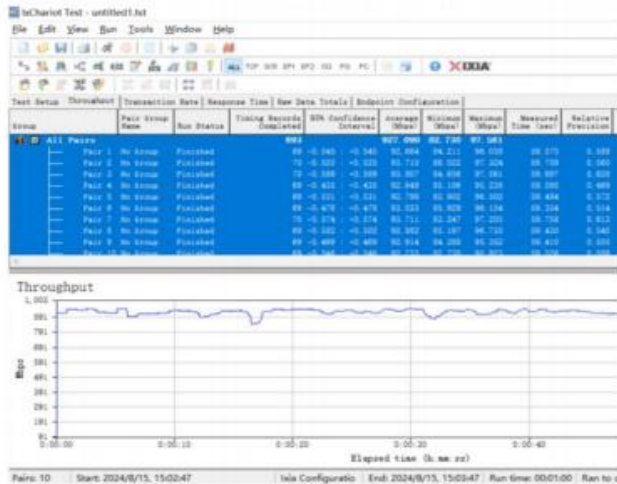
2. 4G-TX-117



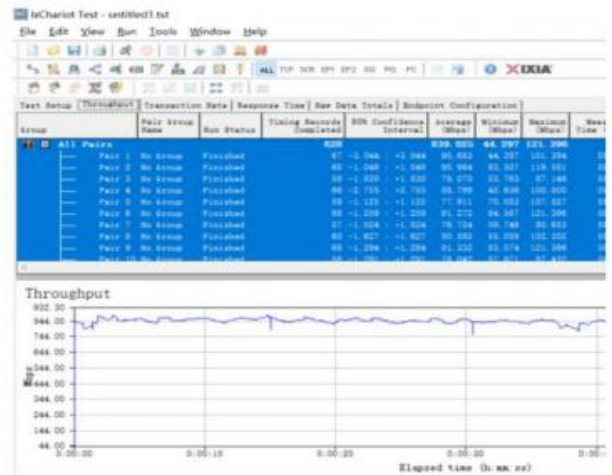
2. 4G-RX-243



5. 8G-TX-927



5. 8G-RX-839



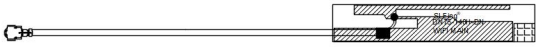
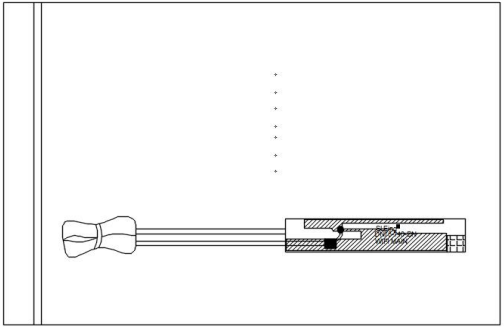
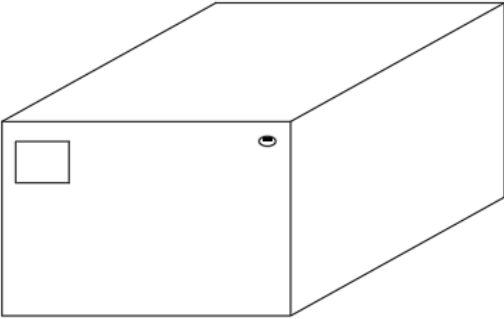
产品包装规范

Product packaging specification

Date: 2024.08.16

page:

1of1

Name of finished product	WIFI Antenna	customer	
Finished product number	SLEingB247970250	REV.	
 单PCS天线 (Single PCS antenna) (2) 50PCS in a PE bag, the PE bag should be labeled with product labels to mark the product name, specifications, quantity, date and heat seal processing.  (3) Packing: 10-60 bags per box (total 1000-6000PCS) 			
(4) Product labels should be affixed to the outer case to indicate the name, specification, quantity and date of the product. (5) Each batch of products should be attached with "factory inspection report". (6) Storage conditions: temperature: -5°C~+30°C, humidity: 20%-70%, The period is one year.			
承办 DESIGNED	胡赵海 (Jreey)	审核 CHECKED	胡赵海 (Jreey)
		核准 APPROVED	朱正锐 (Jongrei)