

A letter of recognition

DESCRIBE: Anker Innovations Co., LTD (T8600)

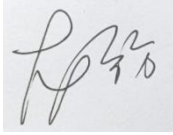
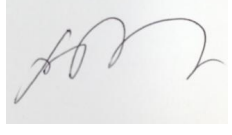
Customer NO: A04-1015020012

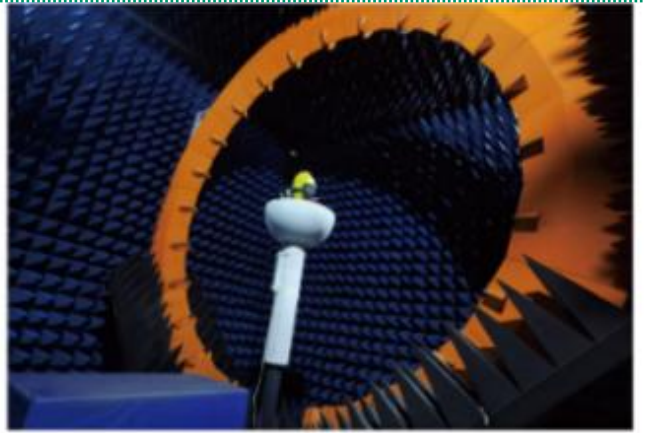
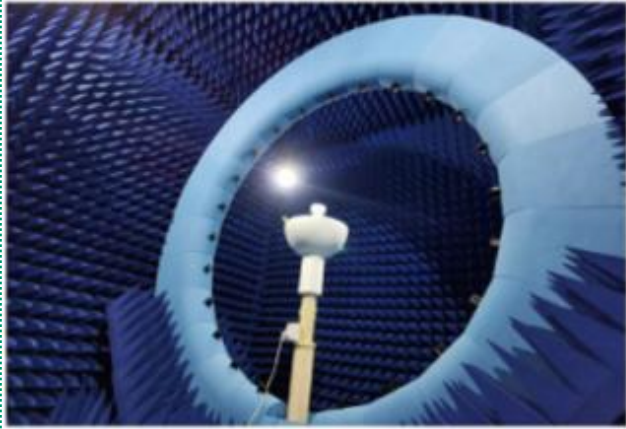
PART NO: ATC1330-HY041B70RA

Antenna type: 2.4G ANT FPC+CABLE

DATE: 2022. 11. 30

PROVIDER: AT&C TECHNOLOGIES(SHENZHEN) CO. LTD

		ID Department	Test department	Structure section	Quality department
Customer Admit	confirm				
Supplier Admit	confirm	confirm	Proofreading	To examine	Approval
			Zhangwanzhe	Xuliying	



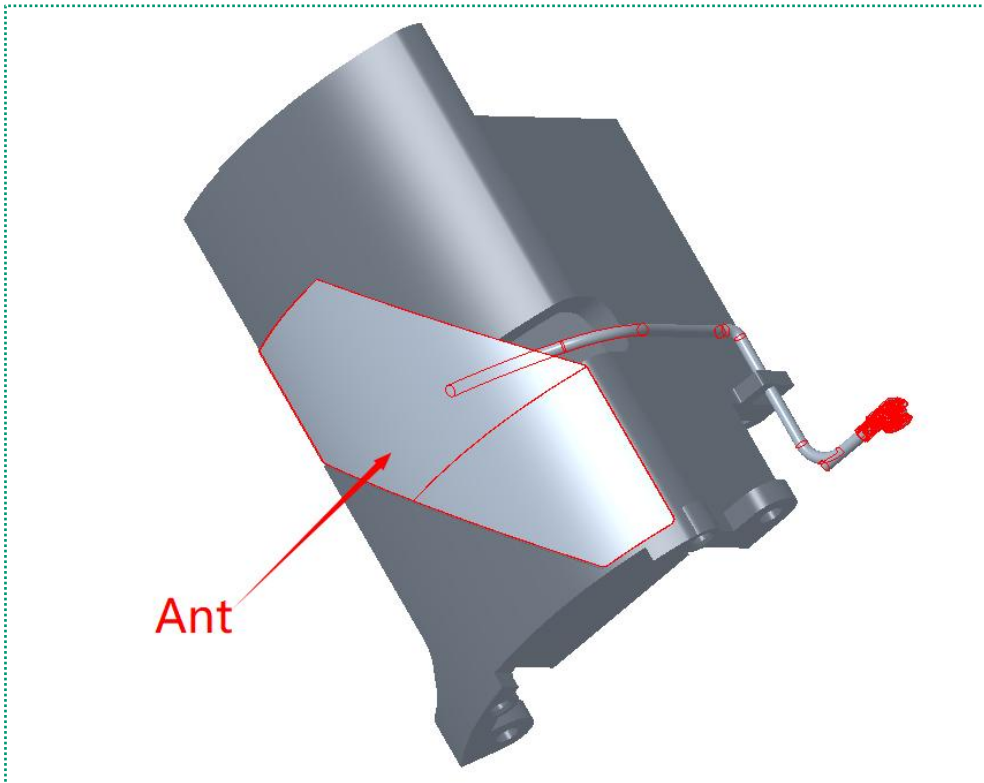
We have RF equipments as below

Anechoic Chambe

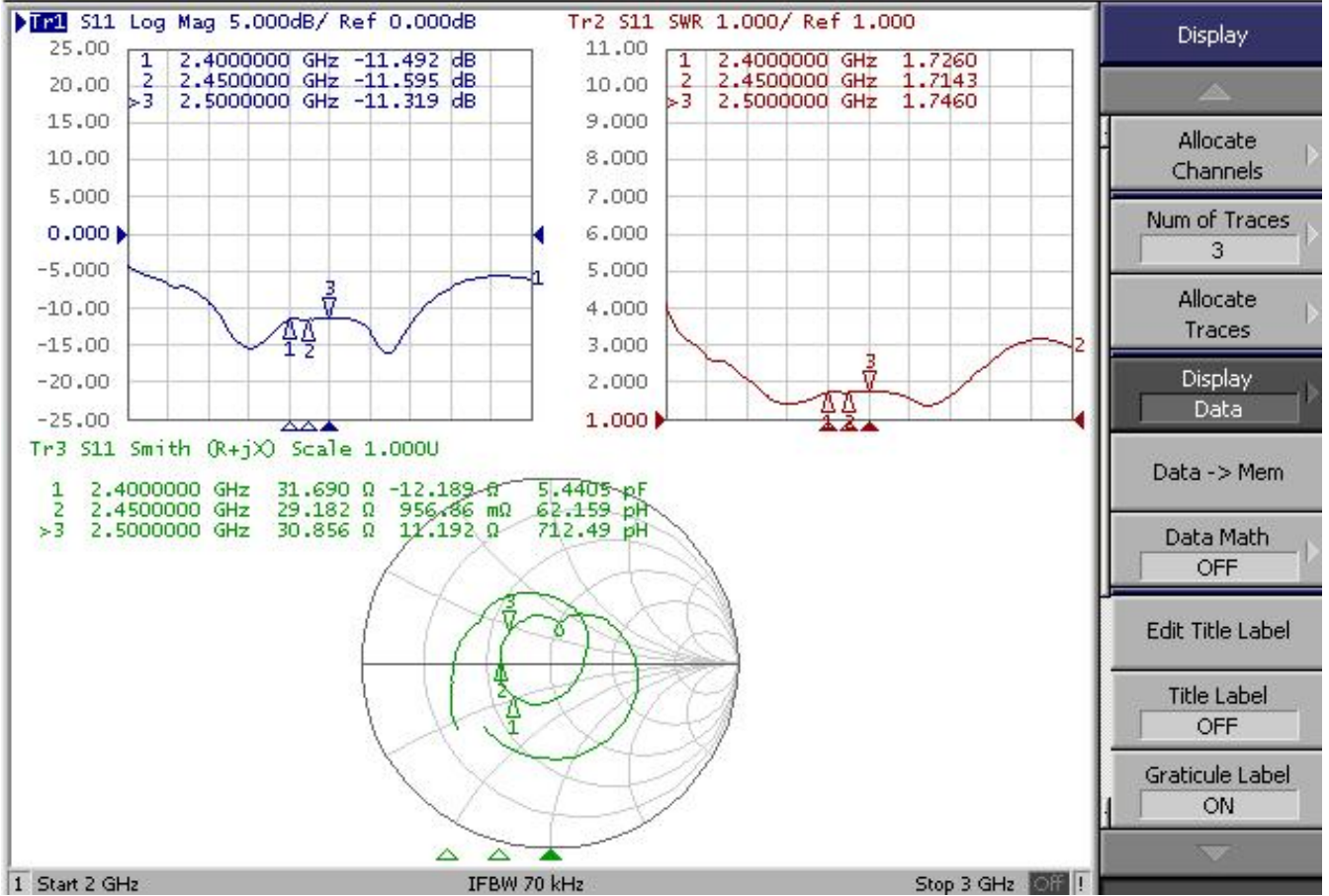
- Satimo 1ea
- SY24 1ea
- SAR 1ea
- KSS 2ea

Measurement

- 2G, 3G, 4G
- GPS
- Wifi
- Bluetooth(3.0) OTA
- NFC & WPC



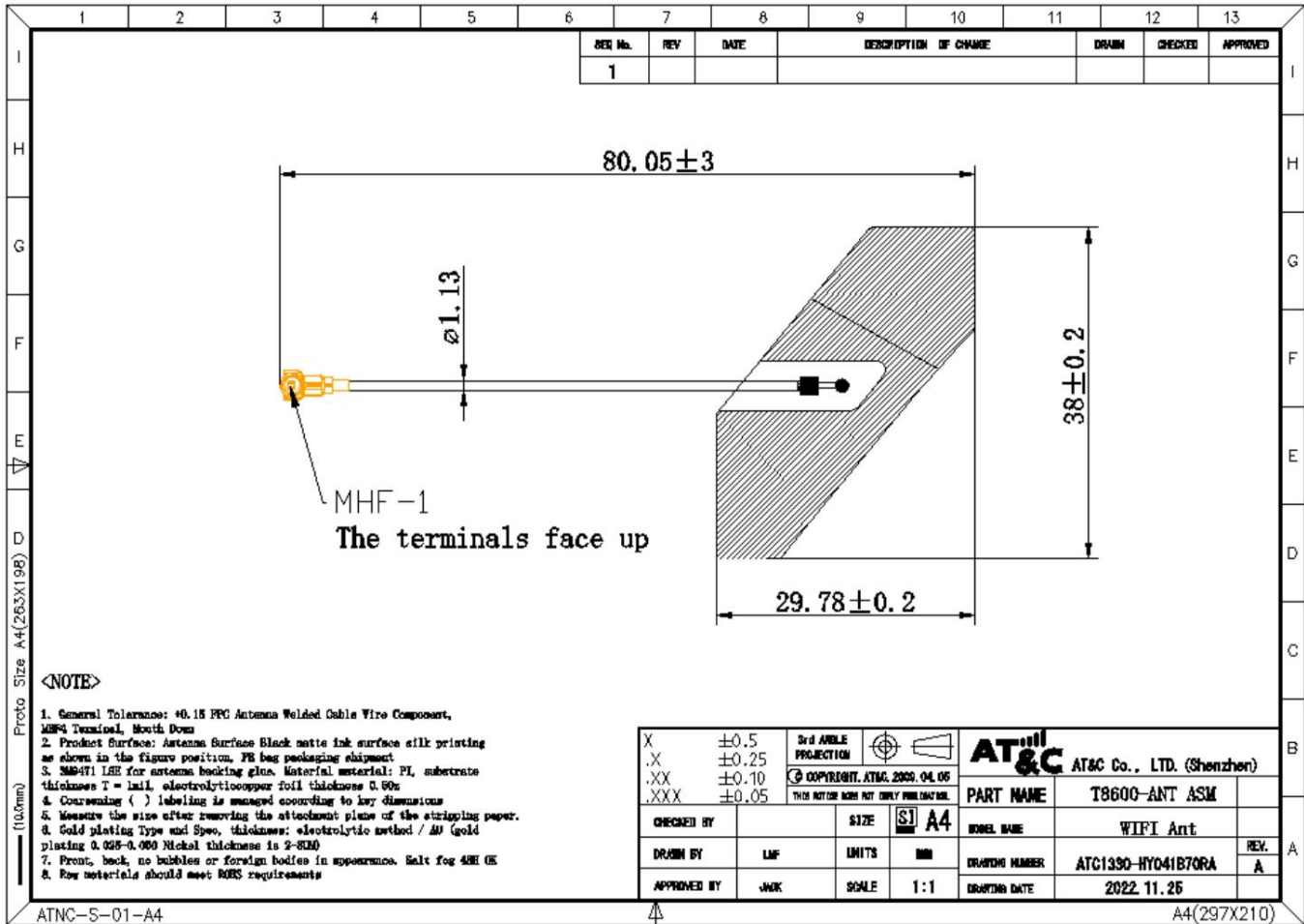
Antenna S11



Antenna *Efficiency

Frequency	Efficiency	Gain . dBi
2400	64%	2.57
2420	64%	2.64
2440	65%	2.73
2460	65%	2.65
2480	67%	2.52
2500	67%	2.51

Channels	TRP	TIS
2.412 GHz	24.20	-86.36
2.437 GHz	24.42	-87.20
2.462 GHz	24.28	-86.69



<NOTE>

1. General Tolerance: ±0.15 PPG Antenna Welded Cable Wire Component, MFG Terminal, Mount Down
2. Product Surface: Antenna Surface Black matte ink surface silk printing as shown in the figure position, PE bag packaging shipment
3. MHF1 LSE for antenna backing glue. Material material: PI, substrate thickness T = 1mil, electrolytic copper foil thickness 0.50z
4. Coarsening () labeling is managed according to key dimensions
5. Measure the size after removing the attachment plane of the stripping paper.
6. Gold plating Type and Spec. thickness: electrolytic method / AU (gold plating 0.025-0.050 Nickel thickness is 2-3UM)
7. Front, back, no bubbles or foreign bodies in appearance. Salt fog 48H (K)
8. Raw materials should meet MMS requirements

X	±0.5	3rd ANGLE PROJECTION			AT&C Co., LTD. (Shenzhen)	
.X	±0.25				PART NAME: T8600-ANT ASM	
.XX	±0.10				MODEL NAME: WIFI Ant	
.XXX	±0.05				REV. A	
<small>© COPYRIGHT. AT&C. 2020. 04. 05 THIS PAPER MUST NOT BE REPRODUCED.</small>				DRAWING NUMBER: ATC1350-HY041B70RA	DATE: 2022. 11. 25	
CHECKED BY	SIZE: A4	UNIT: MM	SCALE: 1:1	DRAWING DATE		
DRAWN BY: LMF						
APPROVED BY: JMK						

ATNC-S-01-A4

A4(297X210)

Size information					Measuring sample			% Tolerance		Handling opinions			Measuring tool
number	Dimension property	Dimension	Lower tolerance	Upper tolerance	1	2	3	Upper	Lower	determine	Supplier review comments	Customer review comments	
1	key point	80.05	-3.00	3.00	79.3	79.6	79.8			PASS			PJ
2	key point	38.0	-0.20	0.20	37.93	38.02	38.08			PASS			PJ
3	key point	29.78	-0.20	0.20	29.79	29.86	29.83			PASS			PJ
4	key point	1.13	-0.10	0.10	1.13	1.13	1.13			PASS			PJ

Production process

T8600 Production process flow chart

Product Name: T8600 antenna assembly

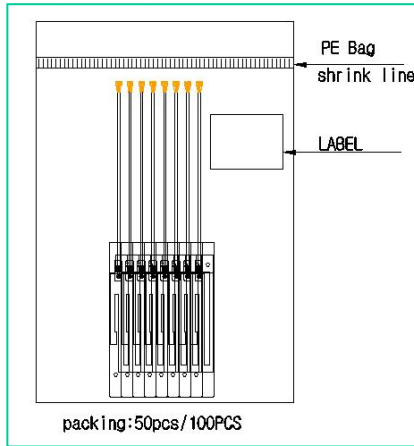
No	Process name	Use of equipment, fixture and tooling	Inspection items	Control factor	Reference standard	Inspection frequency
1	FPC incoming	Quadratic element or caliper	Key dimensions		Reference drawings	1
			Common appearance defects of FPC components		Refer to relevant inspection specifications	AQL0.65
			Black oil stripping		≥5Kg/f	2
			Material type, ROHS compliance		Reference drawings	Once
2	Cable incoming	Quadratic element or caliper	Key dimensions		Reference drawings	1
			Common appearance defects of coaxial line components		Refer to relevant inspection specifications	AQL0.65
			Wire end welding		Easy to weld, no oxidation, poor welding	2
			Material type, ROHS compliance		Reference drawings	Once
3	Cable welding	Soldering iron and tin wire	Soldering with iron	welding temperature	320±10℃	1
			Welding appearance		Do not short circuit, connect tin, wire skin scald	100%Self inspection
					False welding and false welding are not allowed	100%Self inspection
4	Network test	network analyzer	Test waveform compliance	Network parameters	The test waveform parameters of the product are consistent with the set waveform parameters, and the display of	100%
					Refer to t8010 antenna inspection specification	100%
5	100% Appearance inspection And packaging	Cartons, pallets, labels, finished products to be packed	appearance		Refer to relevant inspection specifications	100%
			Number of packages		Correct product name, quantity and related information	Once
			Correct marking		Refer to product drawing and PCB welding antenna inspection specification	Once
6	OQC Delivery inspection	Quadratic element / caliper 3M glue	Key size and position of antenna		Refer to product drawing force test standard	Once
			Thickness and drawing adhesion		Refer to product salt spray test standard	Monthly / time
			Pull out force test of coaxial line		Refer to T8600 antenna inspection specification	AQL0.65
			Salt spray test			
			Antenna appearance, packaging and labeling			

Test items

Serial number	Test items	Specifications	Testing equipment	The measured data				
				SAMPLE # 1	SAMPLE # 2	SAMPLE # 3	SAMPLE # 4	SAMPLE # 5
1	Appearance	① 重点管理项目（主要不良类型） ② 不能有漏铜切断现像区域 ③ 公差±0.15mm 以内 ④ 不多胶铜短路胶 ⑤ 产品不能有划伤，脏污，印刷掉落 等	Visual inspection	OK	OK	OK	OK	OK
2	Color	① 要在颜色限度样本范围内 ② 时颜色不能有明显差异（上~下）	Visual inspection	OK	OK	OK	OK	OK
3	Packaging	Production date, Part No, etc incoming/outgoing daily check for consistency	Visual inspection	OK	OK	OK	OK	OK
4	Dimension measurement	Recognize the importance of drawing management dimension measurement	Second dimension, measuring instrument	OK	OK	OK	OK	OK
5	Thickness of copper layer	cu: 0.50z P11mial	Thickness gauge					
6	Harmful substances	要达到 Rohs 6大物质及Halogen物质基准 ※ 参照 XRF 分析日志	XRF Measuring instrument	OK	OK	OK	OK	OK
7	Performance	Test fixture performance to confirm	Network analyzer	OK	OK	OK	OK	OK

Packaging method

PE bag packaging, product emission neat, uniform quantity



Picture: Outer box "I" seal, QC PASS seal on the left side of the outer box, sealed without exposure.



PART LIST

The packing drawing is schematic diagram, which does not mean that the picture is the actual product and the actual shipment is the standard.

NO	DESCRIPTION	Q'TY	MATERIAL	REMARKS	REV.
1	ANTENNA	1/1000		N/A	A
2	PAD OUT	1/4	SW A골 5T	N/A	A
4	CARTOON BOX	-	SW A골 5T	N/A	A
5	PACKING TAPE	-	PP	N/A	A