

M600H Project Antenna Specification Sheet

Customer Name: 360

Customer Product Name: M600H

product name: FPC+ coaxial cable soldering

Product Specifications: For details, please refer to the BOM table.

Supplier Material Code: 233087-IA

Changes to the professional history:

order number	edition	state	Start and end dates	person liable	page number	remarks
1	editio princeps	editio princeps	2026-8-31	Li Jieyi	9	

Supplier's acknowledgment of signature:

Person Responsible / Date		IQC/date	Reviewed/Date	Approved/Date
MD	Feng Jiwu	Su Guanfeng	He Shiyin	
RF	Jiang Mingfei			

Buyer's Acknowledgment of Signature (please mail this back after signing):

Buyer's assessment result: ☐ Pass ☐ Fail Buyer's assessment result: ☐ Pass ☐ Fail			
Development Design Engineer / Date	SQE Engineer / Date	Procurement Manager/Date	Approved by Development Manager / Date

catalogue

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(This image is for illustrative purposes only; the actual product will be subject to the final mass production specifications.)	9

1. Overview

1.1 Scope

This specification defines the antenna technical requirements and material specification requirements for M600H products. This specification applies to the selection, testing, and acceptance of M600H antennas.

1.2 Project Basic Information

Antenna Name:	<u>M600H</u>
Antenna frequency:	WIFI:2400-2500MHZ/5100-5800MHZ
Antenna material:	FPC+coaxial cable

2. Technical Specification Requirements

2.2.1 Test Items and Equipment Overview

List	test item	equipment
Active testing	TRP,TIS	Integrated test instrument, microwave anechoic chamber

2.2.2 Test Description

Test equipment: Agilent 8960 integrated test system, R&SCMW500, full-wave far-field ETS anechoic chamber, high-precision positioning system with its controller, and a computer equipped with an automated test program.

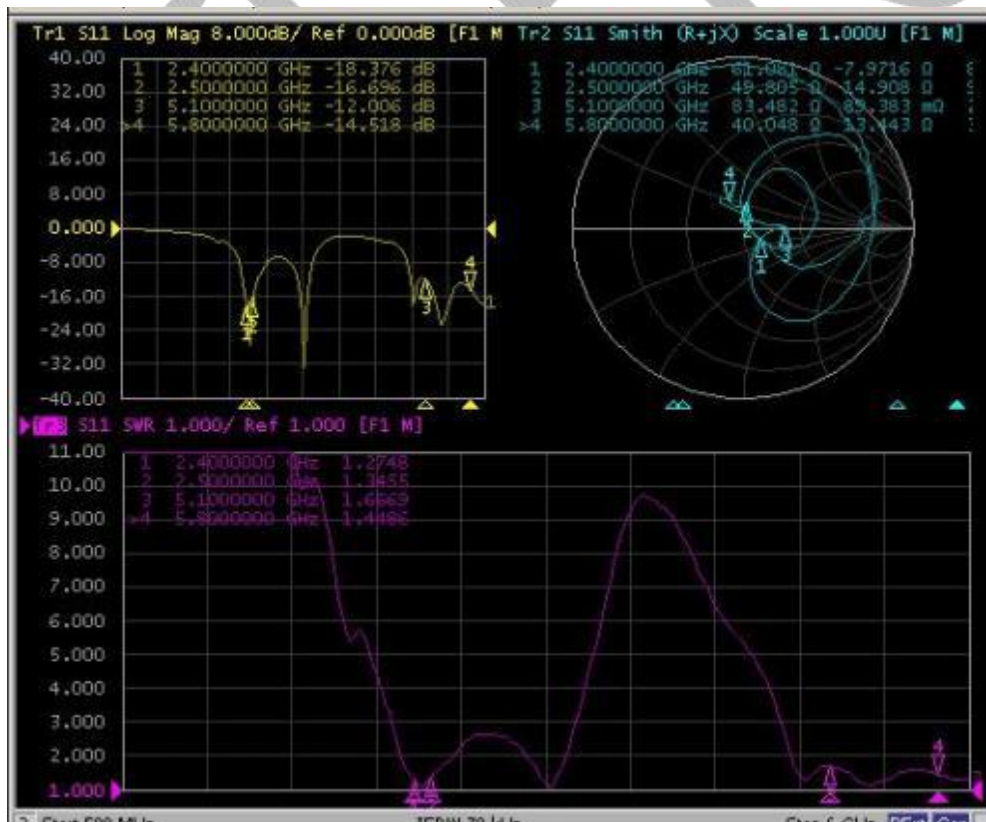
Test environment: temperature $22\text{ }^{\circ}\text{C} \pm 3\text{ }^{\circ}\text{C}$, humidity $50\% \pm 15\%$

Test procedure: The DUT is placed on the H-plane at the center position of the turntable and secured, positioned on the same horizontal plane as the center of the horn antenna.

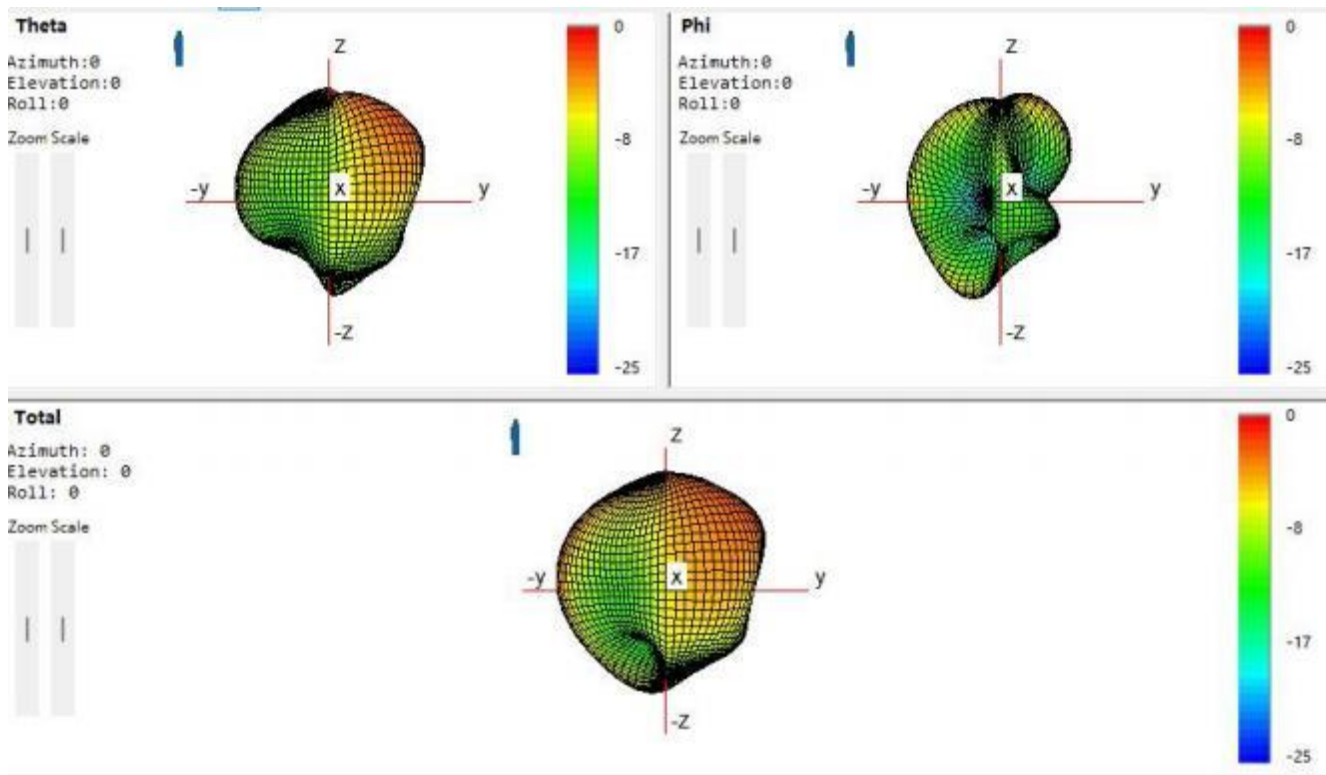
The positioning system enables the DUT to rotate over the entire spherical surface, thereby achieving high-precision three-dimensional positioning. The various RF instruments, the turntable controller, and the PC equipped with automated test software communicate via a GPIB interface.

2.2.3 Passive Parameters of the Antenna

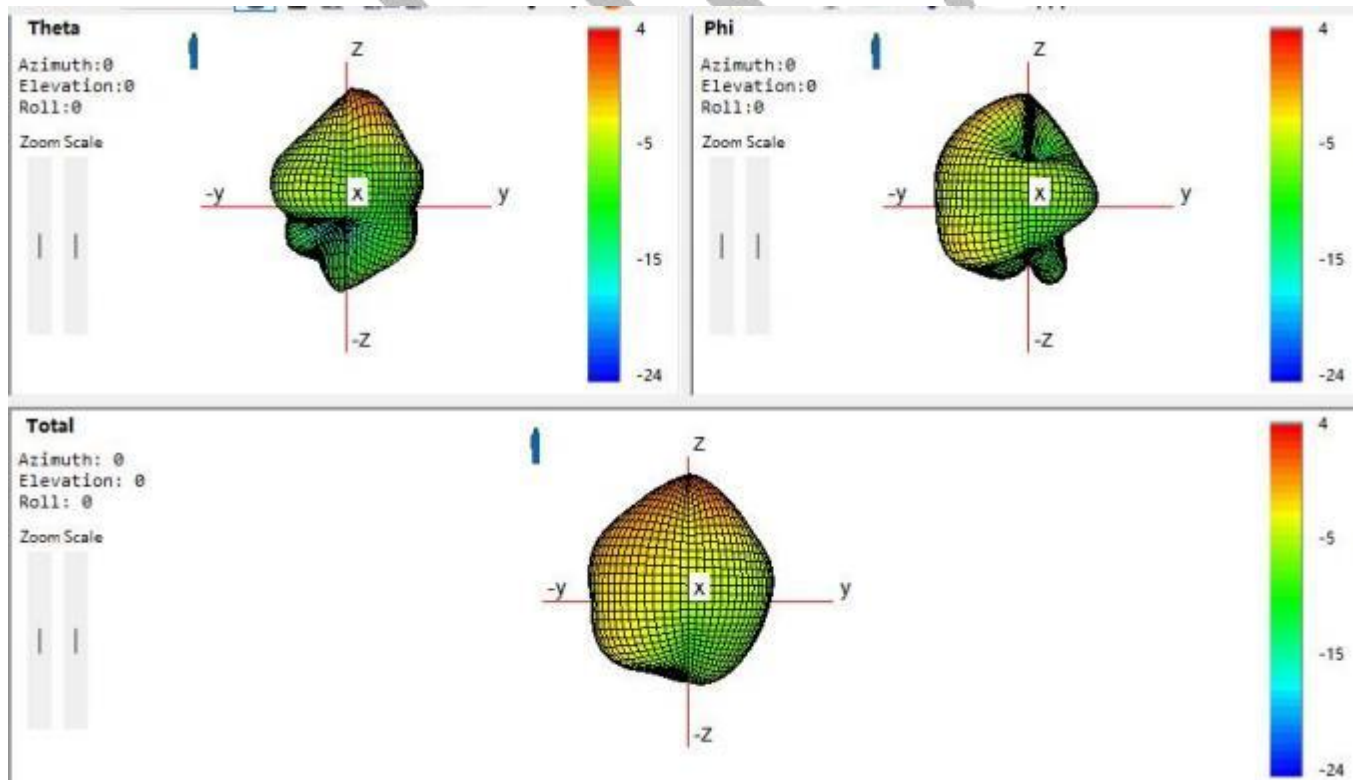
frequency	productiveness(%)	gain(dBi)	frequency	productiveness(%)	gain(dBi)
2400.0	44.55%	0.93	5100.0	45.23%	1.87
2410.0	45.78%	0.97	5200.0	46.72%	1.95
2420.0	46.28%	1.04	5300.0	48.26%	2.14
2430.0	47.62%	1.15	5400.0	49.53%	2.23
2440.0	48.34%	1.19	5500.0	50.66%	2.11
2450.0	48.55%	1.24	5600.0	48.74%	2.05
2460.0	47.32%	1.16	5700.0	47.92%	1.94
2470.0	46.87%	1.10	5800.0	47.34%	1.85
2480.0	46.34%	1.06			
2490.0	45.87%	0.99			
2500.0	45.63%	0.95			



2.2.4 Wi-Fi 2.4 GHz Antenna Pattern



2.2.5 Wi-Fi 5.8G Antenna Pattern



2.2.6 Active Parameters of the Antenna

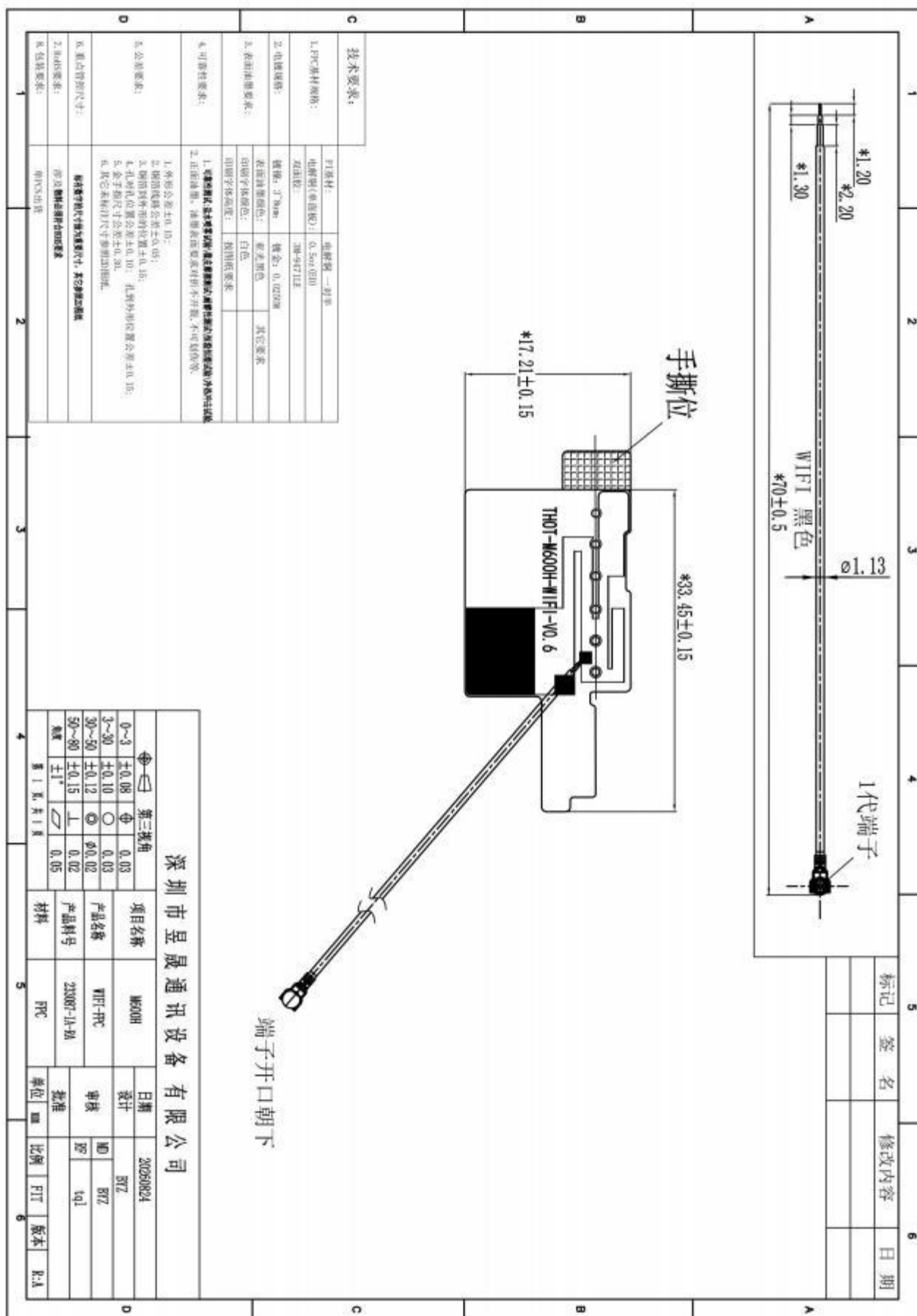
		信道号	TRP (db)	TIS (dbm)
WIFI	11B (11M)	CH1	11.68	-80.77
		CH6	12.07	-80.63
		CH11	11.93	-78.34
	11G (54M)	CH1	12.48	-67.66
		CH6	13.37	-68.36
		CH11	12.78	-67.25
	11N (MCS7)	CH1	12.42	-66.06
		CH6	13.26	-66.76
		CH11	12.61	-66.35
	11A (54M)	CH36	10.66	-69.67
		CH149	11.34	-69.52
		CH165	11.78	-69.28

2.2.7 Environmental Treatment



- 1、主板贴导电泡棉与屏幕接地。
- 2、天线贴导电泡棉与屏幕接地。

3. Structural Drawings



4. Bill of Materials



深圳市昱晟通讯设备有限公司
Shenzhen Yusheng Communication Equipment Co.,LTD

233087(M600H)-BOM表

版次: RA

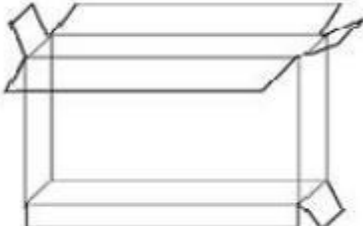
客户: 233

机种: 233087

制订日期: 20251122

项次	*物料编码	*物料名称	物料类别名称	*机型	规格型号	颜色	*计量单位	用量	备注
2	233087-IA-RA	WIFI天线组件		M600H	WIFI-FPC焊接同轴线+测试	黑色	PCS	1	
2.1	233087-IA-01-RA	FPC-WIFI		M600H	黑色 WIFI-FPC 电解铜 1对半 镀金33.45*17.21*0.12MM	黑色	PCS	1	
2.1	233087-IA-02-RA	WIFI同轴线		M600H	1代单头 直径1.13 黑色 1.13*70MM	黑色	PCS	1	
2.2	233087-IA-03-RA	焊接+导通测试		M600H	焊接+测试		PCS	1	
确认:			审核:			制作: 郭前钱			

5. Packaging Illustration

Packaging Diagram																
product name	Antenna assembly															
P / N	233087															
Project Model	M600H															
Packaging List	Cardboard box dimensions: 1: 270*260*200 mm carton dimensions 2: 260*200*200 mm cardboard box size 3: Depends on the order quantity/volume															
	Packaging Method	Packaging based on order quantity														
	Total number of packages	Packaging based on order quantity														
labeling requirement	Label Size 1: Standard: 100*100 mm Label Size 2: According to customer requirements	深圳市昱晟通讯设备有限公司 <table><tr><td>客户名称</td><td>*****</td></tr><tr><td>订单编号</td><td>*****</td></tr><tr><td>项目名称</td><td>*****</td></tr><tr><td>物料编码</td><td>*****</td></tr><tr><td>数 量</td><td>****pcs</td></tr><tr><td>出货日期</td><td>****年**月**日</td></tr><tr><td colspan="2">地址：深圳市光明新区光明大道南太云创谷园区2栋4楼4A</td></tr></table>	客户名称	*****	订单编号	*****	项目名称	*****	物料编码	*****	数 量	****pcs	出货日期	****年**月**日	地址：深圳市光明新区光明大道南太云创谷园区2栋4楼4A	
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地址：深圳市光明新区光明大道南太云创谷园区2栋4楼4A																
matters need attention																
1. Due to order quantity constraints, the carton configuration for each material shall be determined based on the total order quantity or the physical volume of the material.																
2. Storage temperature: room temperature																
3. Storage conditions: Store in a cool, dry place.																

(This image is for illustrative packaging purposes only; the actual product will be subject to the final mass production specifications.)