

Room 411, Building 2, South Taiyun Chuanggu Park, Southeast Of The Intersection Of Guangming Avenue And Dongchang Road, Tangwei Community, Fenghuang Street, Guangming Dist.

G980-H Project antenna specification

Customer name: 360

Customer product name: G980-H

Product name: Antenna assembly

Product specification: see BOM for details

material code: GPSceramic antenna: 231100321; White

copper antenna: 231100320 (kemugin)

Change Content CV:

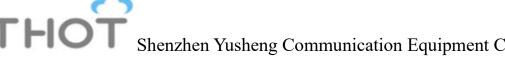
order number	edition	state	Start and end date	person liable	page number	remarks
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The Supplier acknowledges the signature that:

Responsible person / date		IQC/ date Review / Date		Approval / Date	
MD	Feng Jiwu	Su Guanfeng	Zeng Xiang hao	一种 图 用 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图	
RF	Chen Kehong			市中田	

The Demander acknowledges the signature (please send it back after the confirmation)

The demander the result: qualified unqualified						
Development & Design SQE Engineer / Date Purchasing Leader / Development Manager						
Engineer / Date		Date	approval / date			



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1. Overview

1.1 Scope of application

This requirement specifies the antenna technical requirements and material requirements specifications for G980-H products.

This requirement applies to the selection, testing and acceptance of G980-H antenna.

1.2 Project basic information

Antenna name:	<u> G980-Н</u>
Antenna frequency:	WIFI/GPS:2.4G/5.8G GPS+BD
Antenna material:	Shrapnel / ceramics
Antenna Type	Metal

2. Technical index requirements

2.1 Introduction of test items and equipment

inventory	test item	equipment
Active test	TRP,TIS	Integrated tester, microwave darkroom

2.2 Active Reporting

2.2.1 Test instructions

Test tools: Agilent8960 instrument, R & SCMW500, full wave far field ETS dark room, high p recision positioning system and its controller and computer with automatic test program

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

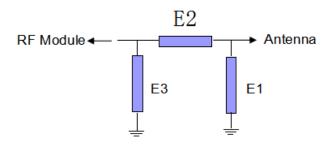
Test method: DUT is fixed in the center of the turntable with H plane, on the same horizo ntal line as the center of the horn antenna.

The positioning system enables the DUT to rotate in the whole sphere to satisfy the high-precision 3 D positioning. Each RF instrument and turntable controller communicate with the PC with automatic test software through the GPIB interface.



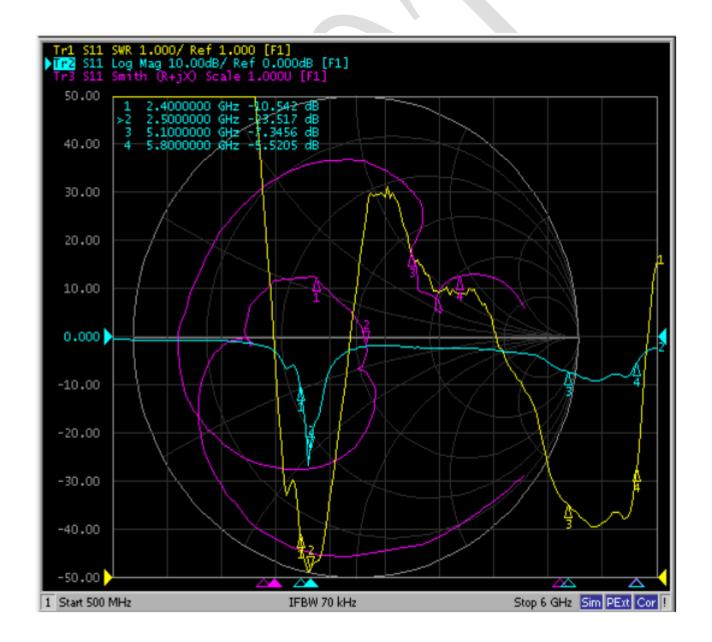
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2.2.2 Antenna matching



Element	Value
E1 (0201)	Debugging
E2 (0201)	prototype status,
E3 (0201)	unchanged

2.2.3 Antenna passive parameters



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2.2.4 ota data-no extended camera is added

	2.4 b model				5G a model	
Channe I	1	6	12	36	149	165
TRP (dBm)	15. 24	15. 46	14. 97	14. 92	13.78	13. 34
TIS(dBm)	-81. 40	-81. 66	-81. 12	-69.74	-70. 48	-71. 04

2.2.5 ota data-Plus extension camera

	2.4 b model			5G a model		
Channe I	1	6	12	36	149	165
TRP (dBm)	15. 24	15. 49	14. 35	13. 38	13. 25	13. 07
TIS(dBm)	-79. 79	-79. 41	-79. 24	-67. 52	-67. 65	-67. 85

2.2.6 Antenna passive parameters

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Freq (2. 4G)	Effi (%)	Gain (dbi)
2400MHZ	42. 1	1. 50
2410MHZ	42. 5	1. 61
2420MHZ	43. 8	1. 74
2430MHZ	45. 6	2. 01
2440MHZ	47. 9	2. 14
2450MHZ	51. 0	2. 30
2460MHZ	49. 2	1. 78
2470MHZ	47. 2	1. 67
2480MHZ	43. 6	1. 59
2490MHZ	38. 5	1. 57
2500MHZ	36. 7	1. 40

Freq (5G)	Effi(%)	Freq (5G)	Effi (%)
5100MHZ	30. 1	5750MHZ	33.6
5150MHZ	33. 3	5800MHZ	34. 6
5200MHZ	36. 4		
5250MHZ	37. 5		
5300MHZ	38. 9		
5350MHZ	41.5		
5400MHZ	39. 2		
5450MHZ	38. 7		
5500MHZ	37. 9		
5550MHZ	36.6		
5600MHZ	34. 2		
5650MHZ	33. 7		
5700MHZ	35. 4		

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Freq (5G)	Gain (dbi)	Freq (5G)	Gain (dbi)
5100MHZ	0.65	5750MHZ	1.20
5150MHZ	0.74	5800MHZ	1.30
5200MHZ	0.85		
525 0 MHZ	0.77		
5300MHZ	0.68		
5350MHZ	0.85		
5400MHZ	1.11		
5450MHZ	1.02		
5500MHZ	1.32		
5550MHZ	1. 25		
5600MHZ	1.60		
5650MHZ	1.52		
5700MHZ	1.36		

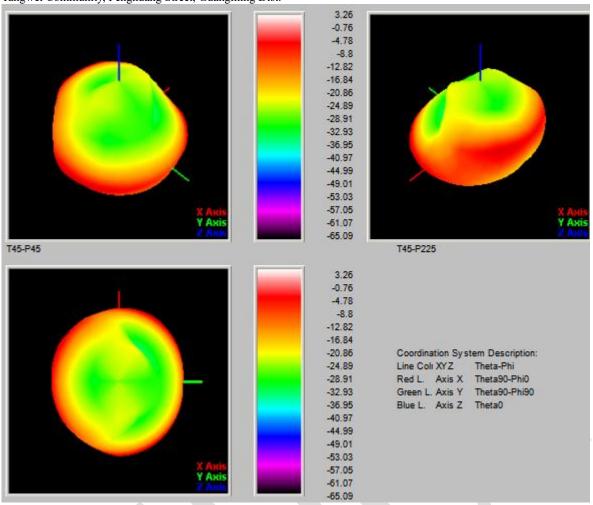
2.2.7 Directional diagram

2.4G wifi

THOT

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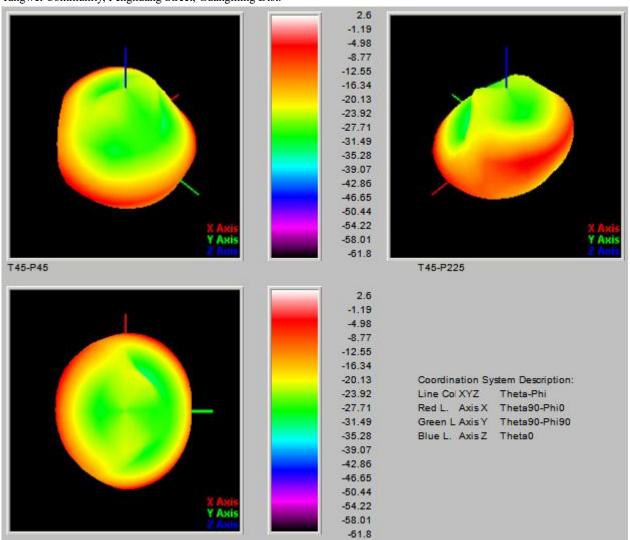


5.8G-WIFI

THOT

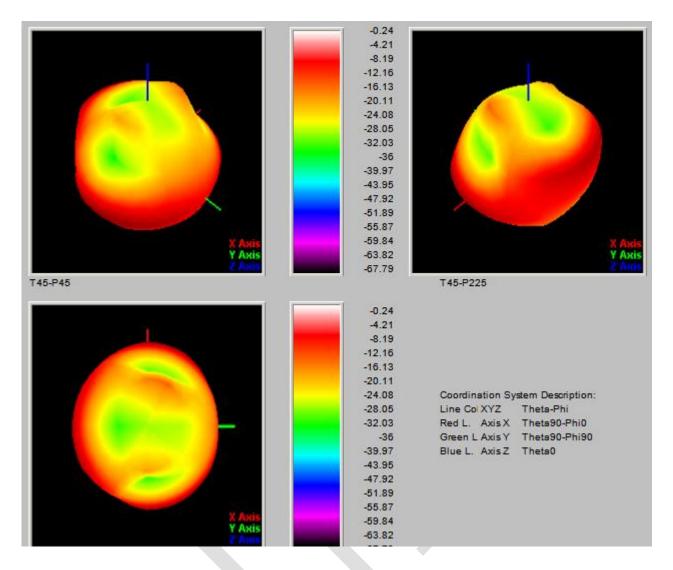
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GPS



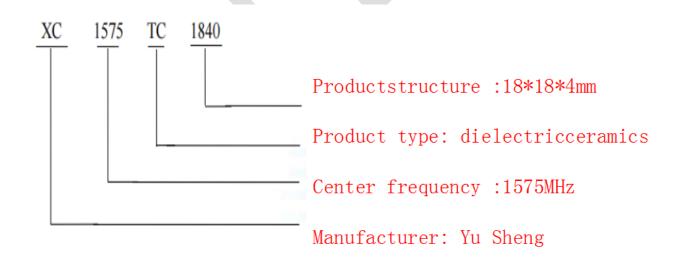


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2.2.8 GPS test data



2.2.9 Model No



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2.2.10 Structure and materials

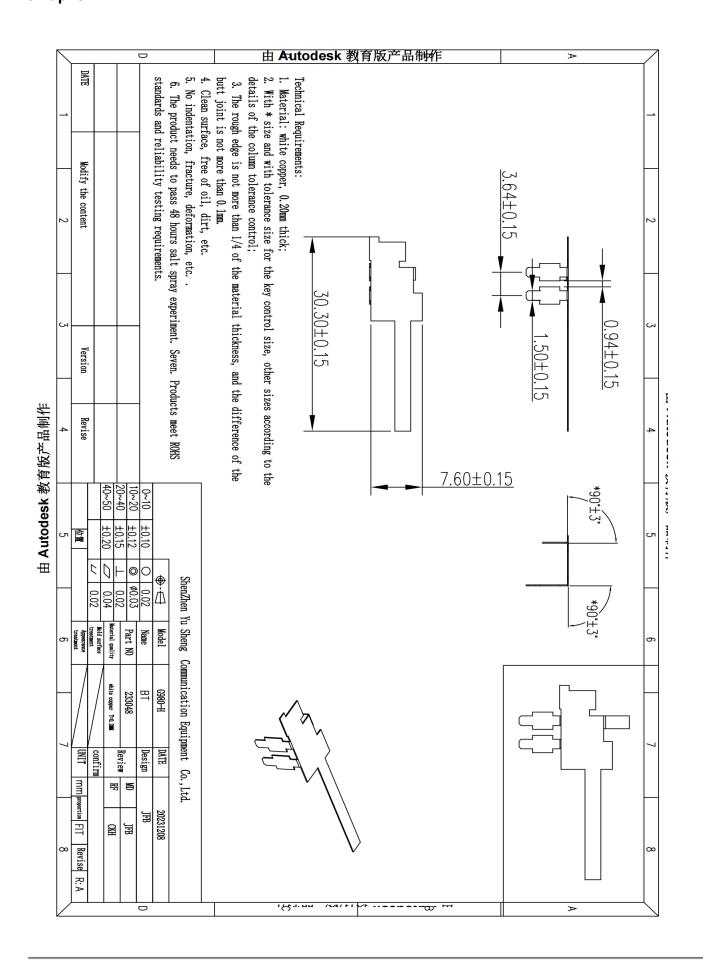
NO	Name	Structure and material				
1	Antenna substrate	Microwave dielectrics				
2	Pin	Copper tinned alloy				
3	Radiant surface	Silver plating				
4	Ground plane	Silver plating				

3. structural drawings



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shrapnel



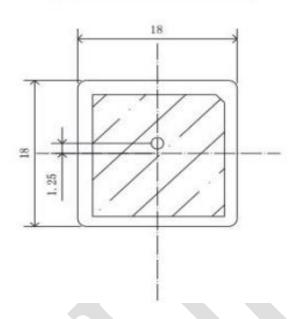


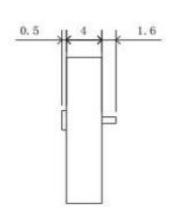
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GPS antenna

L: 18.0±0.2mm

W: $18.0 \pm 0.2 \text{mm}$ H: $4.0 \pm 0.1 \text{mm}$





4. Bill Of Material



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233048 (G980-H) -BOM

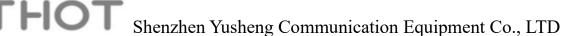
edition: R:A

client: 233

Type of aircraft: 233048

Set a date: 2023/12/08

Item	≉Material code	*Material name	name	*Machine type	Specification and model	colour	*UNIT	dosage	remark
1	233048-IA-RA	BT Antenna		G980-H	white copper T=0.2MM 30.30*7.80*6.25mm	black	PCS	1	
1. 1	233028-IA-RA-01	BT Antenna		G980-H	white copper T=0.2MM 30.30*7.80*6.25mm	black	PCS	1	
1. 2	233048-IB-RA	GPS Antenna		G980-H	Ceramic powder Brush the silver oars 18*18*4MM	black	PCS	1	
2	233048-IB-RA-01	GPS Antenna		G980-H	Ceramic powder Brush the silver oars 18*18*4MM	black	PCS	1	
	verify:			examin	ne:		manufa	cture: F	Ţ₩



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5. Packaging diagram

Packaging method diagram					
product name		<u>antenna</u>			
P/N		233048			
Project model	<u>G980-H</u>				
File details	Carton Size 1: 270*260*200MM Carton Size 2: 260*200*200MM Carton Size 3: Depending on the order quantity / volume Boating method Total number of binning	Packaging by order quantity Packaging by order quantity			
labeling requirement	Tag Size 1: Universal use 100 * 100mm Tag Size 2: According to customer requirements				

matters need attention

1. Due to the limitation of order quantity, the packing method of each material is the size of the box according to the total quantity of the order or the physical volume



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- 2. Storage temperature: room temperature
- 3. Preservation conditions: store them in a cool and dry place

(This figure is only a packaging diagram, subject to the actual mass production)

