

W510 Project antenna specification

Customer name: 360

Customer name: W510

Product name: W510-FPC+ coaxial line welding

Product specification: WIFI(2.4G)

Material code:

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				
RF				

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

The demander's judgment result: ☐ qualified ☐ unqualified			
Development & Design Engineer / Date	SQE Engineer / Date	Purchasing Leader / Date	Development Manager approval / date

catalogue

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1. Overview

1.1 Scope of application

This requirement specifies the antenna technical requirements and material requirements specifications for W510 products.

This requirement applies to the W510 Antenna type selection, test, and acceptance.

1.2 Project basic information

Antenna name:	<u>W510</u>
Antenna frequency:	WIFI: 2.4G
Antenna material:	FPC+ coaxial line welding

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

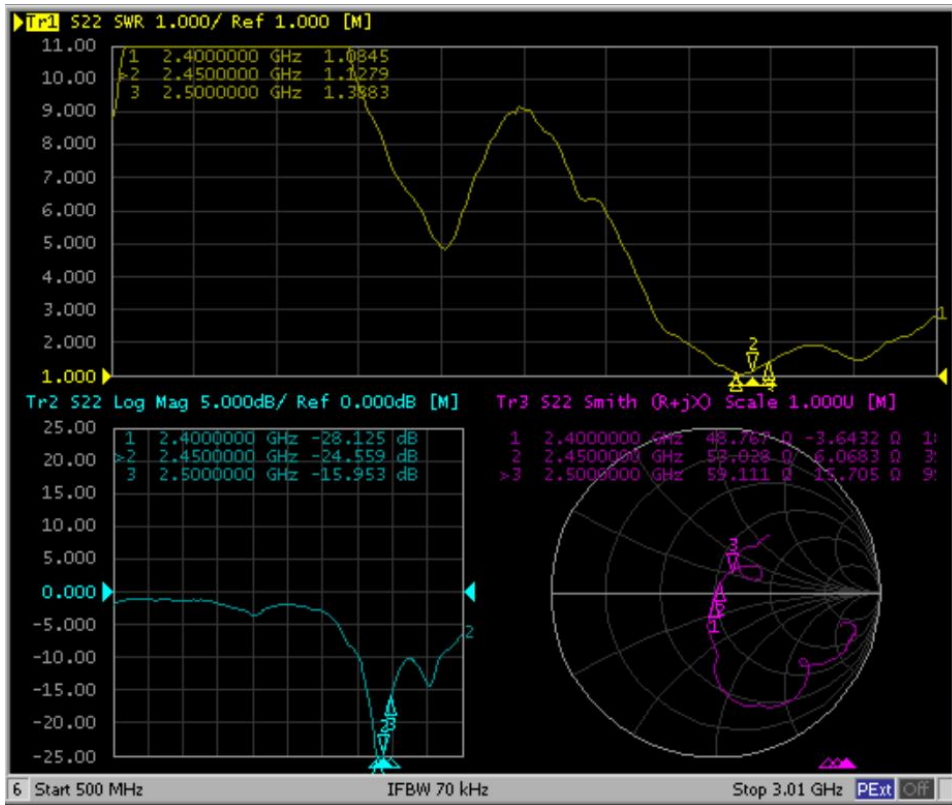
Test tools: Agilent8960 instrument, R & SCMW500, full wave far field ETS dark room, high precision positioning system and its controller and computer with automatic test program

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 horizontal 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.

2.2.2 Antenna passive parameters

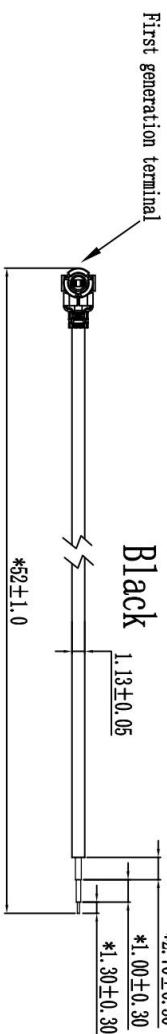
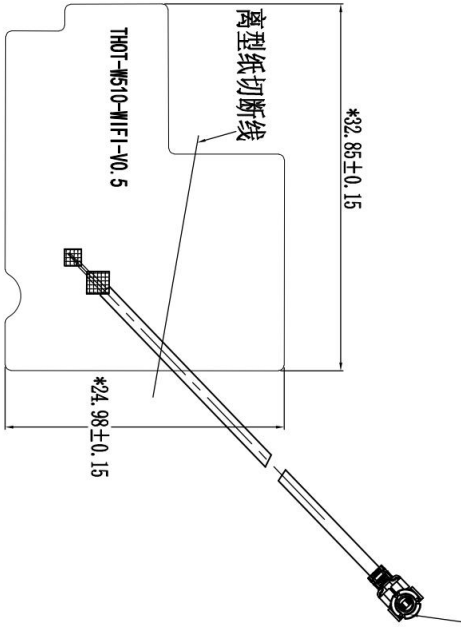


Freq	Effi (%)	Gain (dBi)
2400.0	54.0%	1.44
2410.0	55.7%	1.57
2420.0	56.6%	1.89
2430.0	56.7%	2.19
2440.0	57.6%	2.21
2450.0	57.3%	2.15
2460.0	56.2%	2.37
2470.0	55.4%	2.23
2480.0	54.6%	2.10
2490.0	53.3%	2.11
2500.0	52.7%	1.98

2.2.3 Antenna environment rectification



3.structural drawings

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4. Bill Of Material

233079 (W510) -BOM

Edition : T:A

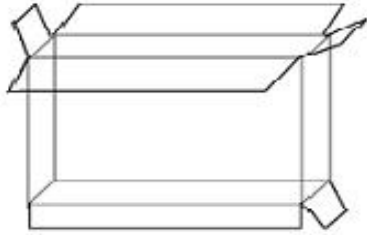
client : 233

Type of airTCft : 233079

Set a date : 2024/12/20

Item number	*Material code	*Material name	name	*Machine type	Specification and model	colour	*UNIT.	dosage	remark
1	233079-IA-TA	WIFI antenna		W510	WIFI-FPC welding coaxial line	black	PCS	1	
1.1	233079-IA-01-TA	WIFI-FPC		W510	WIFI-FPC electrolytic copper 1 half white character 32.85*24.98*0.12 mm	black	PCS	1	
1.2	233079-IA-02-TA	WIFI-CABLE		W510	Single-head first-generation terminal $\Phi 1.13 \times 52.00$ mm	black	PCS	1	
1.3	233079-IA-03-TA	Assemble		W510	weld	black	PCS	1	
1.4	233079-IA-04-TA	Test		W510	Network Analyzer Test	black	PCS	1	
verify :			examine :			manufacture : BYZ			

5. Packaging diagram

Packaging method diagram		
product name	FPC+ coaxial line welding	
P / N	233079	
Project model	<u>W510</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	Packaging by order quantity
	Total number of binning	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		
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)