



承认书

SPECIFICATION FOR APPROVAL

客户 Customer:

品牌 Brand: CHUANGYIN

品名 Description: WIFI Antenna

规格/型号

Specification

/part no: Built in Antenna/50 Ω /2.4-2.5GHz&5.15-5.85GHz/ 3.0 dBi@2.4G,3.0dBi@5.8G /RG0.81 Black Cable L=120 mm/I-PEX Second Generation Terminal/Black Built-In FPC Dual Frequency Antenna

日期 Date: 2024.08.26

备注 Remark:

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客户签字盖章:

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规格书

客户料号

Customer P/N: /

规格描述

Specification: Built in Antenna/50 Ω /2.4-2.5GHz&5.15-5.85G
Hz/ 3.0dBi@2.4G,3.0dBi@5.8G /RG0.81 Black
Cable L=120mm/I-PEX Second Generation Te
rminal/Black Built-In FPC Dual Frequency Ante
nna

品名 Description: WIFI Antenna

供应商 Supplier: CHUANGYIN

生产商 Producer: CHUANGYIN

备注 Remark:

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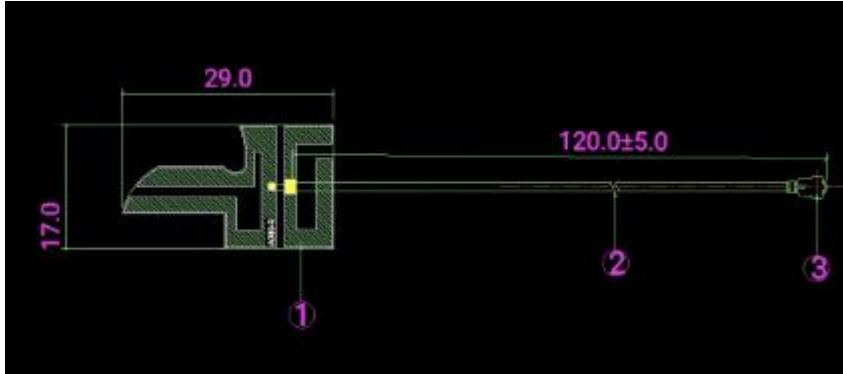
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Specification list

Antenna Picture	5
Electrical parameter	5
Mechanical parameters	5
Operating/ Storage Temperature	5
Structural drawings	6
Environmental and reliability testing	7
Test equipment	9
Measuring parameter	10



天线图纸 (Picture) :



电气参数 (Electrical parameters) :

Frequency 频率范围	2.4~2.5GHz&5.15-5.85GHz
Impedance 特性阻抗	50Ω
S.W.R. 电压驻波比	≤2.0
Antenna Gain 增益	3.0dBi±0.5@2.4~2.5GHz 3.0dBi±0.5@5.15~5.85GHz
Polarization 极化形式	vertical polarization
Return Loss 回波损耗	-9.2dB MAX

机械参数(Mechanical parameters):

Antenna Colour 天线颜色	Black
RF Cable Model 射频线型号	RG0.81, Black
Connect Type 接口方式	I-PEX Second Generation Terminal



工作/储存温度 (Operating/ Storage Temperature) :

Operating Temperature 工作温度	-40~85℃
Storage Temperature 储存温度	-40~85℃

结构图纸(Structural drawings):



环境与可靠性试验(Environmental and reliability testing):

Environmental test

High and low temperature humidity test report						
Experimental project	High temperature, low temperature and constant humidity test					
Test sample Name plate	FPC Antenna	Test date	2024.07.25			
Quimente	Constant temperature and humidity test chamber network analyzer	Quantity	5PCS			
Inspection standd	1. 1. The metal surface coating has no peeling, cracking, wrinkling and other defects;The non-metal part should not be discolored, broken, deformed, degummed and other defects. 2 .Electrical test meets the design requirements; The voltage standing wave ratio test is qualified.					
Test name	experimental project	require	experiment al method	Actual test data	result	
					sample	decide
High temperature test	Temperature (°C)	+85±3	In accordance withGB2423.1-89 9 chapter To be carried out in the prescribed manner	+85	1	qualified
	Temperature stabilization time of test sample (h)	12		1.2	2	qualified
	Duration of test (h)	1		2.3	3	qualified
	Recovery time (h)	1		1	4	qualified
						5



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Low temperature test	Temperature (°C)	-40±3	in accordance with GB2423.1-89 Section 8 chapter Regulation of the methods	-40	1	qualified
	Temperature stabilization time of test sample (h)	1		1.2	2	qualified
	Duration of test (h)	2		2.4	3	qualified
	Recovery time (h)	1		1.1	4	qualified
					5	qualified

salt spray test; salt fog test

Salt spray test report				
Experimental project	salt spray test; salt fog test			
Test sample Name plate	FPC Antenna	Test date	2024. 07. 25	
Quimente	salt spray corrosion test chamber	Quantity	5PCS	
Inspection standard	Put the test sample into the prepared salt solution test chamber and salt spray corrosion chamber for continuous spray test			
Salt solution concentration	52g/L	The pH of the salt solution: 6.5-7.2	test cycle: 24h	
Actual test data	55g/L	The pH of the salt solution: 6.8	test cycle: 26h	
Test standard; test criteria	According to GB/T10125 "artificial atmosphere corrosion test, salt spray test" test; Results according to the GB/T6461-2002 "Metal and other inorganic coating on metal substrate after corrosion test is the grade of samples and test pieces" rating.			
test results				
NO.	Corrosion rating	Actual test data	Evaluation of the results	备注
1	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	



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2	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
3	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
4	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
5	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	

测试设备(Test equipment)



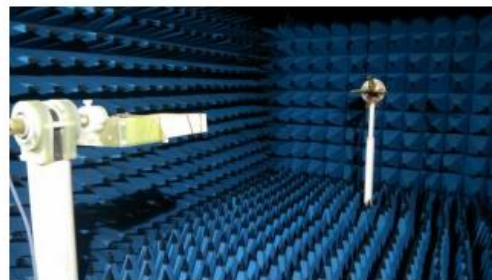
安捷伦 E5071C 网络分析仪



HP 8594E 频谱分析仪



CMW-500

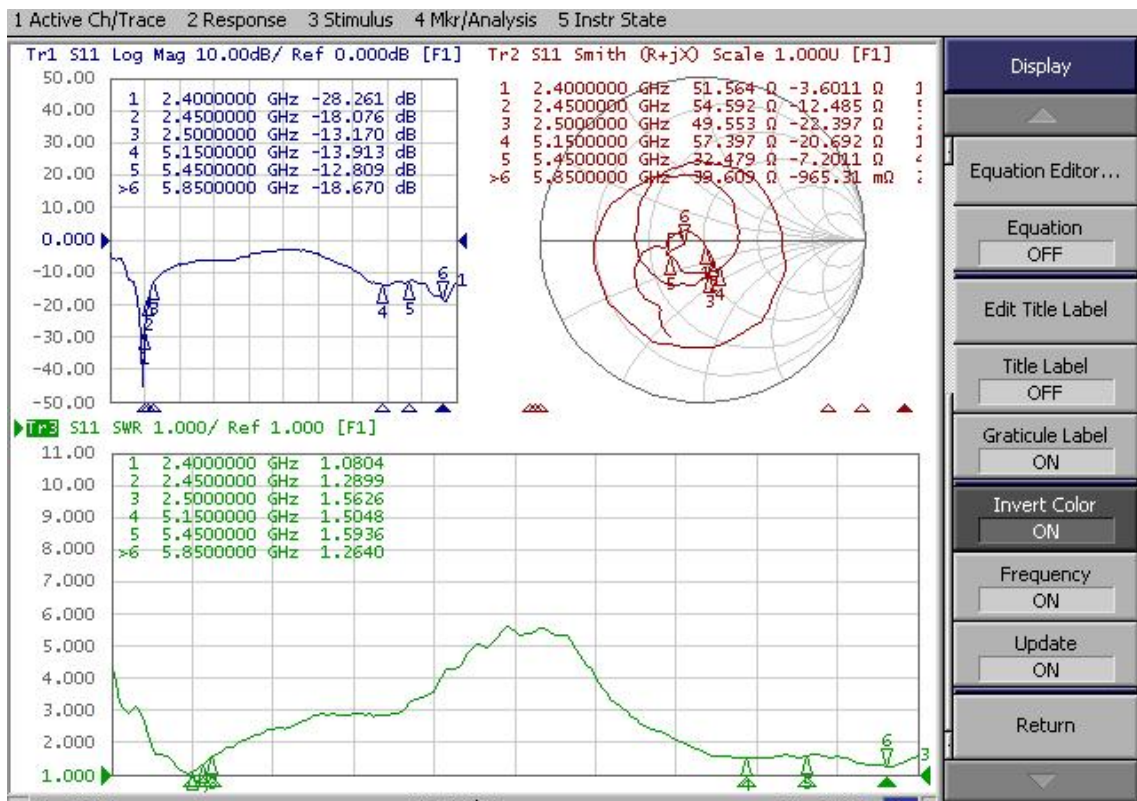


微波暗室



测试参数(Measuring parameter)

V.S.W.R&Return Loss



增益&效率(Gain&Efficiency)

FEITUKEJI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.52	2.54	2.75	2.93	2.82	2.90	2.98	2.90	3.09	2.68	2.92
Efficiency (%)	48.28	47.23	48.18	49.36	51.27	52.07	51.68	52.99	50.48	49.63	48.61



Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Gain (dBi)	3.12	3.24	3.36	3.33	3.02	2.89	2.95	3.09	3.26	3.23	3.12	3.21	3.01	2.91	2.87
Efficiency (%)	51.86	49.94	50.66	50.15	50.15	51.78	52.05	52.60	52.67	49.53	53.14	53.57	54.97	53.32	50.98

2D、3D Radiation Patter

