



Antenna data sheet

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: 承认签章后请回复一份（或复印件）给我司，其余由贵公司留作存档。如果在签章的承认书（或复印件）回复给我司之前，下了有关此规格产品的订单且又无特别说明，那么我司就确定贵司已完全承认了。Please return one specification or one copy of it with your chop and signature of approval and retain the others for your record. In the event of an order being placed for this part number before the chop and signed with specification (or copy) is returned and without special explanation, it will be assumed that full approval have been given.

Manufacturer : Shenzhen Chuangyin technology Co., LTD

Address: 1119 Jinhao Building, Fuyong Section 109, Guangshen Road
Fuhai Fenghuang Community, Baoan District
Shenzhen, China



Resume					
Now no	Modify the section	Change the page number	commence ment date	content of change	Change recorder
V1.1					

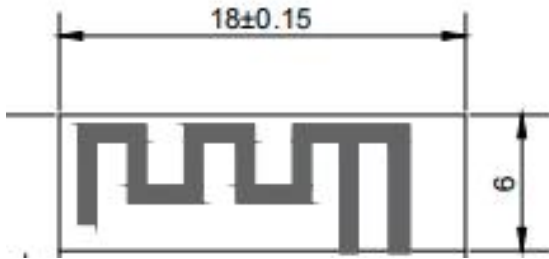


Specification list

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) :



Ver1.1

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



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

Environmental test

High and low temperature humidity test report						
Experi mental 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	
Inspecti on 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 temperatu e test	Temperature (℃)	+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	qualified
	Temperature (℃)	-40±3	n accordance	-40	1	qualified



Ver1.1

Low temperature test	Temperature stabilization time of test sample (h)	1	with GB2423.1-89 Section 8	1.2	2	qualified
	Duration of test (h)	2	chapter	2.4	3	qualified
	Recovery time (h)	1	Regulation of the methods	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	
2	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	



Ver1.1

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)



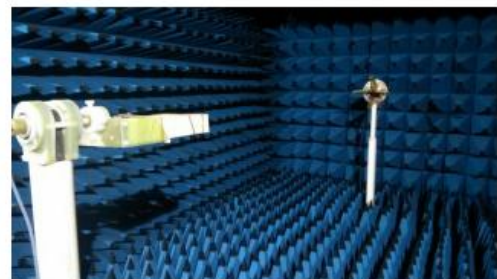
安捷伦 E5071C 网络分析仪



HP 8594E 频谱分析仪



CMW-500



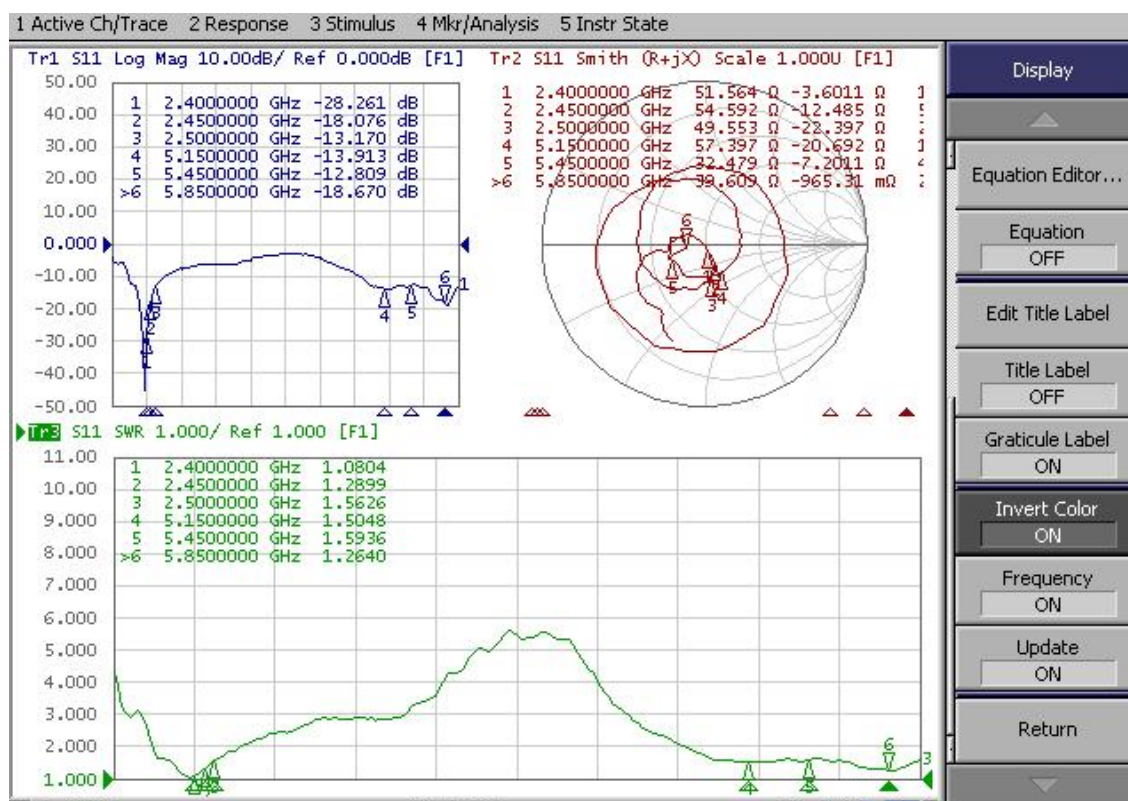
微波暗室



Ver1.1

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



Ver1.1

FETUKEJI															
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

