
Specification For Approval

Customer: _____

Part name: _____ FPC antenna-WIFI (2.4G&5.8G) -1.13 Line length 150MM-IPEX1

Part No: _____

Customer Part No: _____

Customer confirmation		
Confirmation	check	Approver

Manufacturer recognition			
Sales	Drafters	check	Approver
Li Chao	Jiang Xiaoping	Zhang Bin	Ma Feng

一.

二. Product map:

FPC: 7*43MM

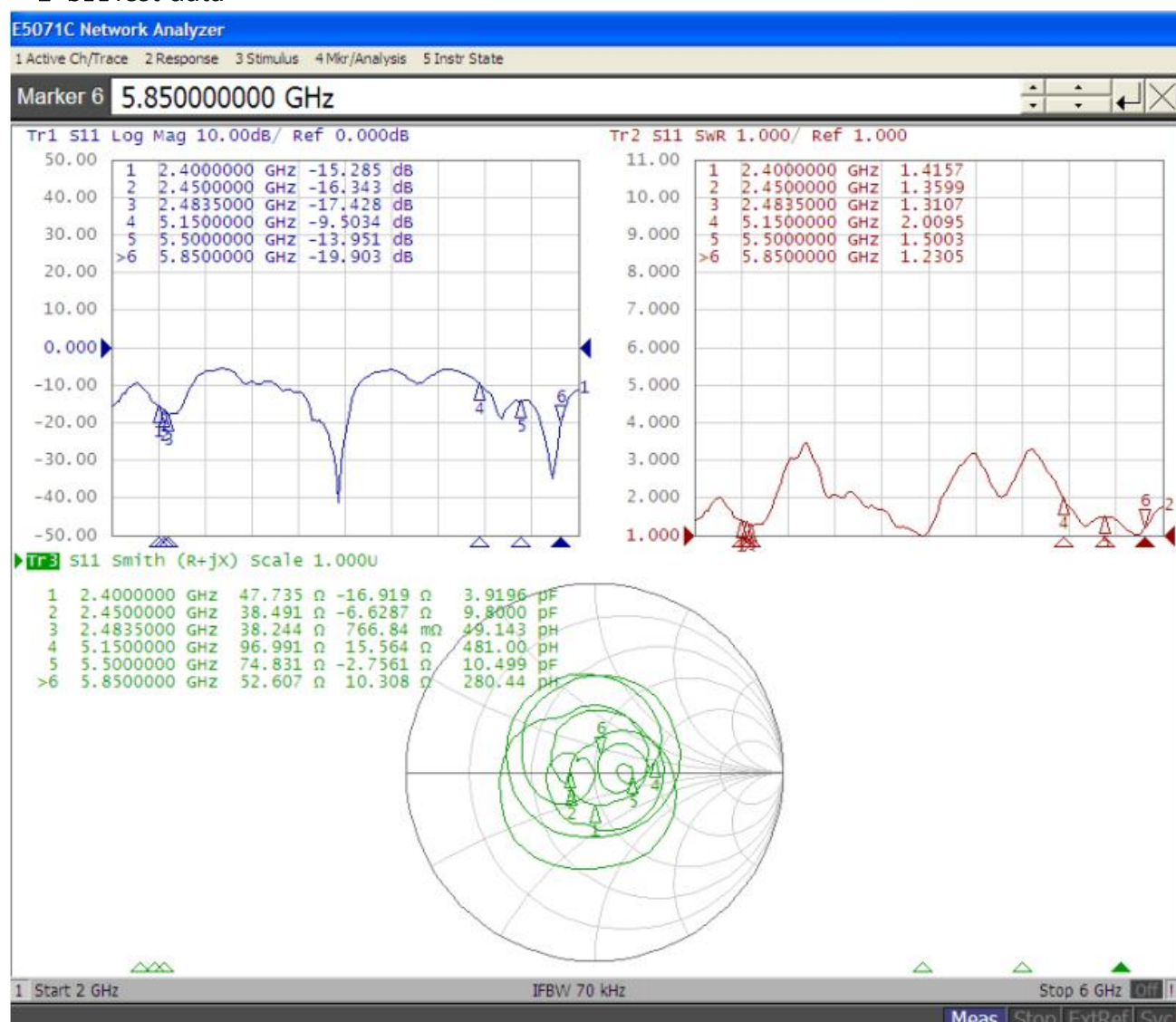


二: Antenna performance:

1 Electrical performance parameter

Electrical performance parameter	
Frequency range (MHz)	2400-2500/5150-5850
Standing-wave ratio (dB)	≤ 2.0
MAX Gain (dBi)	2.0dBi
Polarization mode	perpendicularity
impedance (Ω)	50
Maximum power (W)	25
Environmental parameter	
Operating temperature ($^{\circ}\text{C}$)	$-40 \sim +70$
Storage temperature ($^{\circ}\text{C}$)	$-45 \sim +75$

2 S11Test data



三. Wire specification:



Structural parameter

*	Part name	material
1	Inner conductor	Tinned copper wire
2	insulator	Solid polyethylene (PE)
3	Outer conductor	Tinned copper wire
4	sheath	Polyperfluorinated ethylene-propylene FEP

Electrical property parameter

1	Capacitance (pF/m)	96 ± 3
2	Impedance (ohm)	50
3	Rate (%)	66
4	Bending radius (mm)	≤ 7
5	Maximum operating voltage (VMS)	1000
6	Maximum operating frequency (MHz)	6000
7	Operating temperature range °C	-40 至 80

四. Environmental experiment report:

1High and low temperature humidity test

(P/N)			Name specification		
Pilot project	High temperature, low temperature, constant humidity test				
Testing equipment	Constant temperature and humidity test chamber		Number of tests		
Inspection standard	1. The metal surface coating does not fall off, crack, wrinkle and other bad; Non-metallic parts can not have discoloration, cracks, deformation, degumming and other phenomena.				
Test name	Pilot project	demand	Test method	Result determination	
High temperature test	Temperature (°C)	75 ± 3 1 2 1	Test steps: a) Put the tested part into the test chamber, and then adjust the temperature of the high temperature chamber to $75^{\circ}\text{C} \pm 3^{\circ}\text{C}$, and monitor the	qualified	

			time. b) Place at room temperature for 1 hour after test for routine inspection.		
Low temperature test	Test sample temperature time (h)	-40±3 1 2 1	Test steps: a) Put the tested part into the test chamber, and then adjust the temperature of the low temperature chamber to -40℃±3℃, and monitor the time. b) Place at room temperature for 1 hour after test for routine inspection.	qualified	
Constant damp heat test	Temperature (℃) Relative humidity (%) Test duration (h) Recovery time (h)	+40±3 90-95 21 1	a) Put the tested parts into the test chamber, and then adjust the temperature of the test chamber to +40℃±3℃, the humidity is 90-95%, and the monitoring time. b) Place at room temperature for 1 hour after test for routine inspection.	qualified	

inspector: Lu Xiaojun

check: Xiao Tianfang

Approver: Xiao Tianfang

2Free drop test

Free drop test	P/N		Name specification	
Pilot project	Free drop test			
Testing equipment	1 meter high desktop		Number of tests	
Inspection standard	1. At a height of 1 meter, the product does not fall off, crack, etc., and the appearance is not deformed.			
Test name	Pilot project	demand	Test method	Result determination
Free drop test	Drop height 1000mm	Fall back and front twice	Test steps: a) Drop the tested part at a height of 1000mm and carry out routine inspection after the test.	qualified

Inspector: Lu Xiaojun

check: Xiao Tianfang

Approver: Xiao Tianfang

3Salt spray test

P/N		Name specification	
Pilot project	Fog test		
Testing equipment	Fog test machine	Number of tests	
Inspection standard	1. The metal surface coating does not fall off; Appearance no rust, corrosion, oxidation and other adverse phenomena.		
Test name	Pilot project	demand	Test method
			Result determination
Salt spray test	1.NaCl concentration: 2. Air pressure: 3.PH value: 4. Spray quantity: 5. Brine test temperature setting a. Laboratory temperature: b. Pressure barrel temperature: 6. Test time:	40-60g/1kg $1.0 \pm 0.01 \text{kgf m}^2$ 6.5-7.2 1.0-2.0ml/80c/h。 $35 \pm 1^\circ\text{C}$ $47 \pm 1^\circ\text{C}$ 24H	Test steps: a) Adjust the salt spray tester to the relevant test conditions. b) Put the tested part into the salt spray testing machine and place it for 24 hours. After the test, rinse with clean water, visually test the appearance of the tested parts, and carry out routine inspection.
Inspector: Lu Xiaojun check: Wang Hongkun Approver: Xiao Tianfang			