

Product Number: PCB

Product Name: WIFI 2.4GHZ Antenna PCB

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1. Specification

A. Electrical Characteristics	
Frequency	2400-2500MHZ
S.W.R.	< 1.5
Antenna Gain	2 dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	FR-4
Cable Type	RG-0.81
Connector Type	I-pex 4
Cable length	10CM
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C
Antenna Color Storage life	< 2 year

2. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	GB / T2423 . 48-1997 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	GB / T2423.8-1995 Height: 1.0 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	GB 2423 . 28- 82 Solder iron: 260±5°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-	Holding with individual specification; force applied	1. Directive DUT specification

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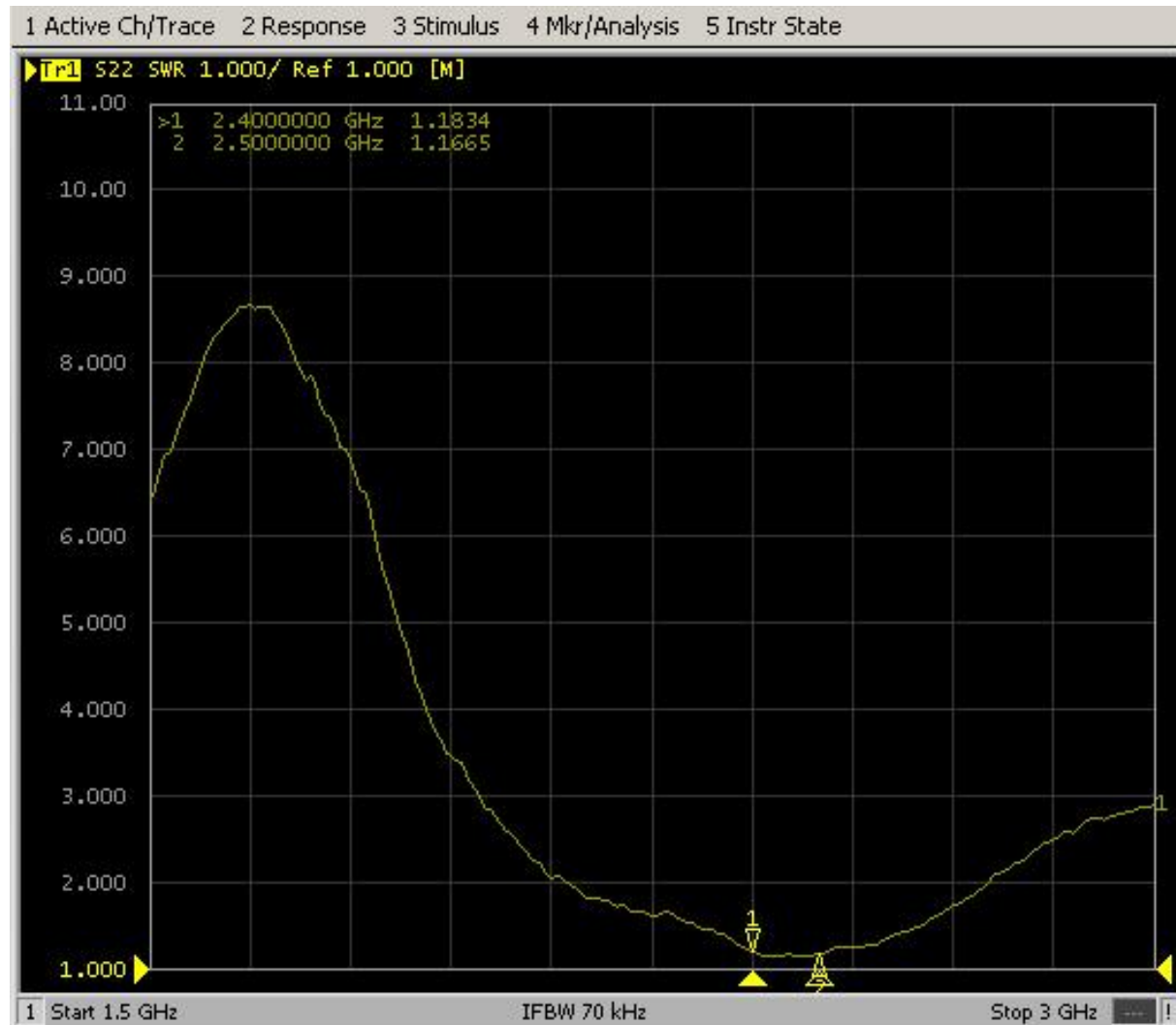
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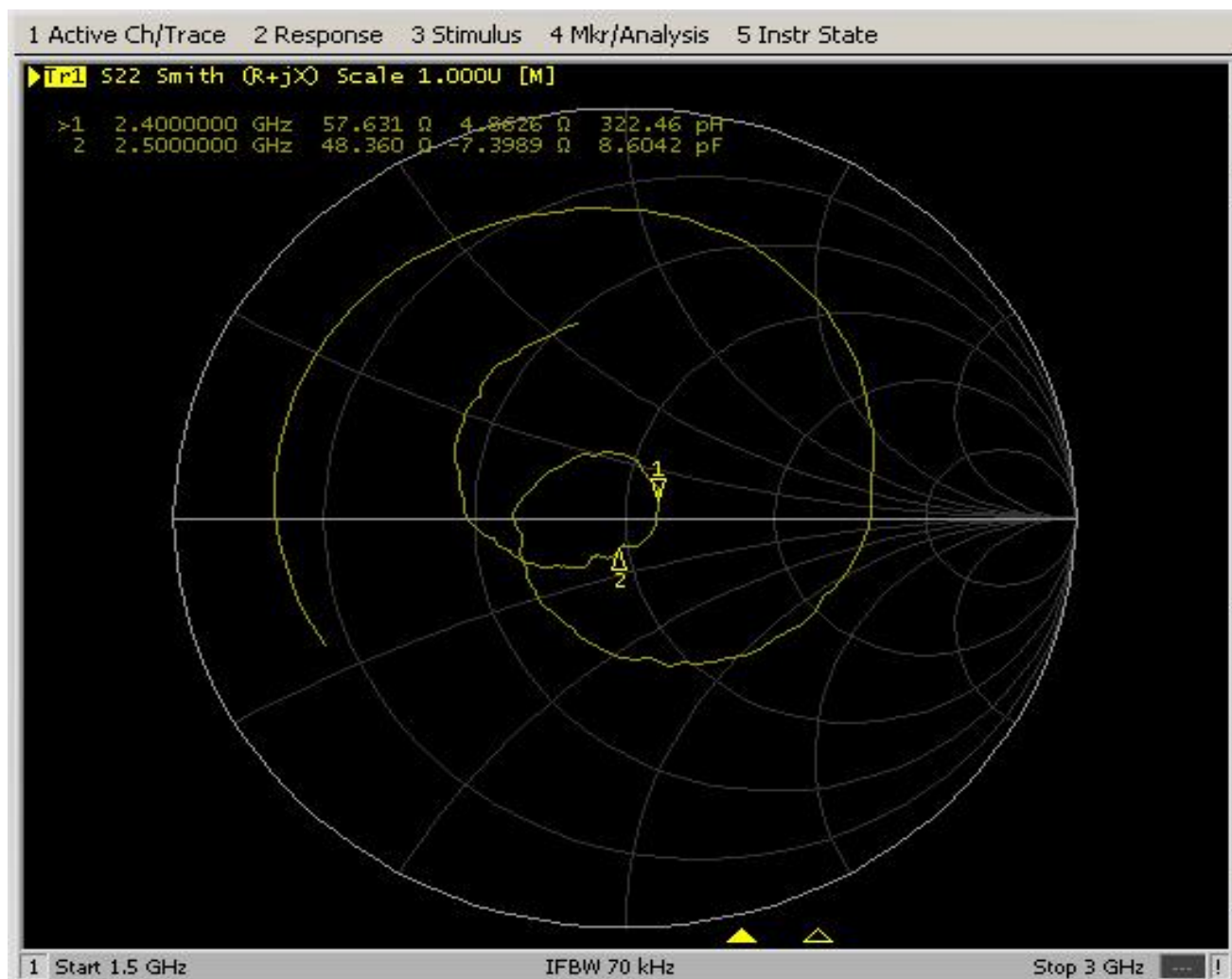
	Pull Test	to axis of terminal	2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	GB / T 2423 . 17- 93 Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	GB / T 2423 . 4 - 93 Temp: 80°C / 12 H; -40°C / 12H RH: >= 90%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	GB / T 2423 . 22 - 87 1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	GB / T 2423 . 2 - 89 Temp: 80°C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2002/95/EC
R2	PFOS	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC
R3	PFOA	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC

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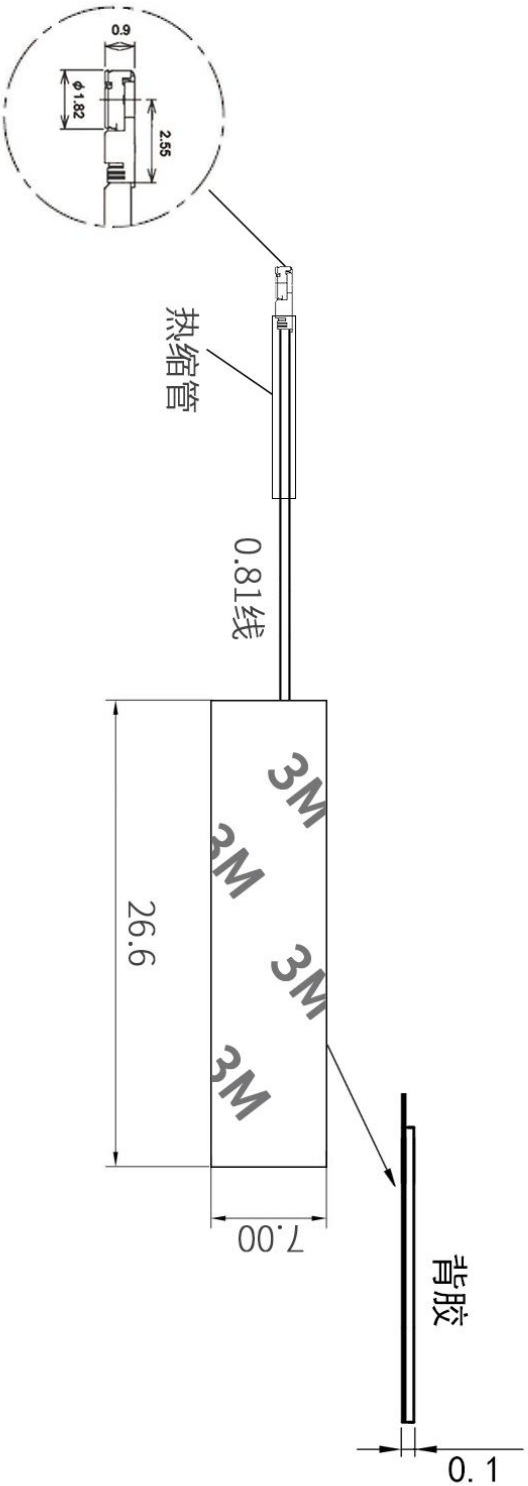
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3. Antenna - S Parameter Test Data





REV.	FILE NO.	DRAWN BY	DATE
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ITEM	PART NAME	DESCRIPTION	Q'TY	REMARK
3	PCB	MATERIAL:PCB	1	N/A
2	RF CABLE	0.81CABLE,BLACK	1	N/A
1	RF CONNECTOR	MHF IPEX PLUG FOR 0.81CABLE	1	N/A

DWG TYPE:	TITLE:	
GENERAL TOLERANCE: UNLESS OTHERWISE SPECIFIED	APPD:	WIFI ANTENNA
X.X ±0.35	X.X' ±3°	
X.XX ±0.25	X.XX' ±2°	
X.XXX ±0.15	X.XXX' ±1°	
CHECK:	DWG No.:	
DRAW:	DATE:	
SCALE:	UNIT:	PAGE: