

Product Number: WIFI -60MM

Product Name: 2.4GHz

Index:

- 1. Specification**
- 2. Characteristics and Reliability Test**
- 3. Antenna - S Parameter Test Data**
- 4. Mechanical and Packing Drawing**
- 5. Material Description and RoHS Test Report**

Product Number: WIFI -60MM

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1. Specification

A. Electrical Characteristics	
Frequency（频率范围）	2400 ~ 2500 MHz
S.W.R.（驻波比）	≤ 2.0
Antenna Gain（增益）	1.5dBi ± 0.7
Polarization（极化方式）	Linear
Impedance（阻抗）	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator（辐射材质）	Cu
Cable Type（线材类型）	RG-1.160mm
Connector Type（接口）	1-1.5-2mm
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. $\leq 5\%$

Product Number: WIFI -60MM

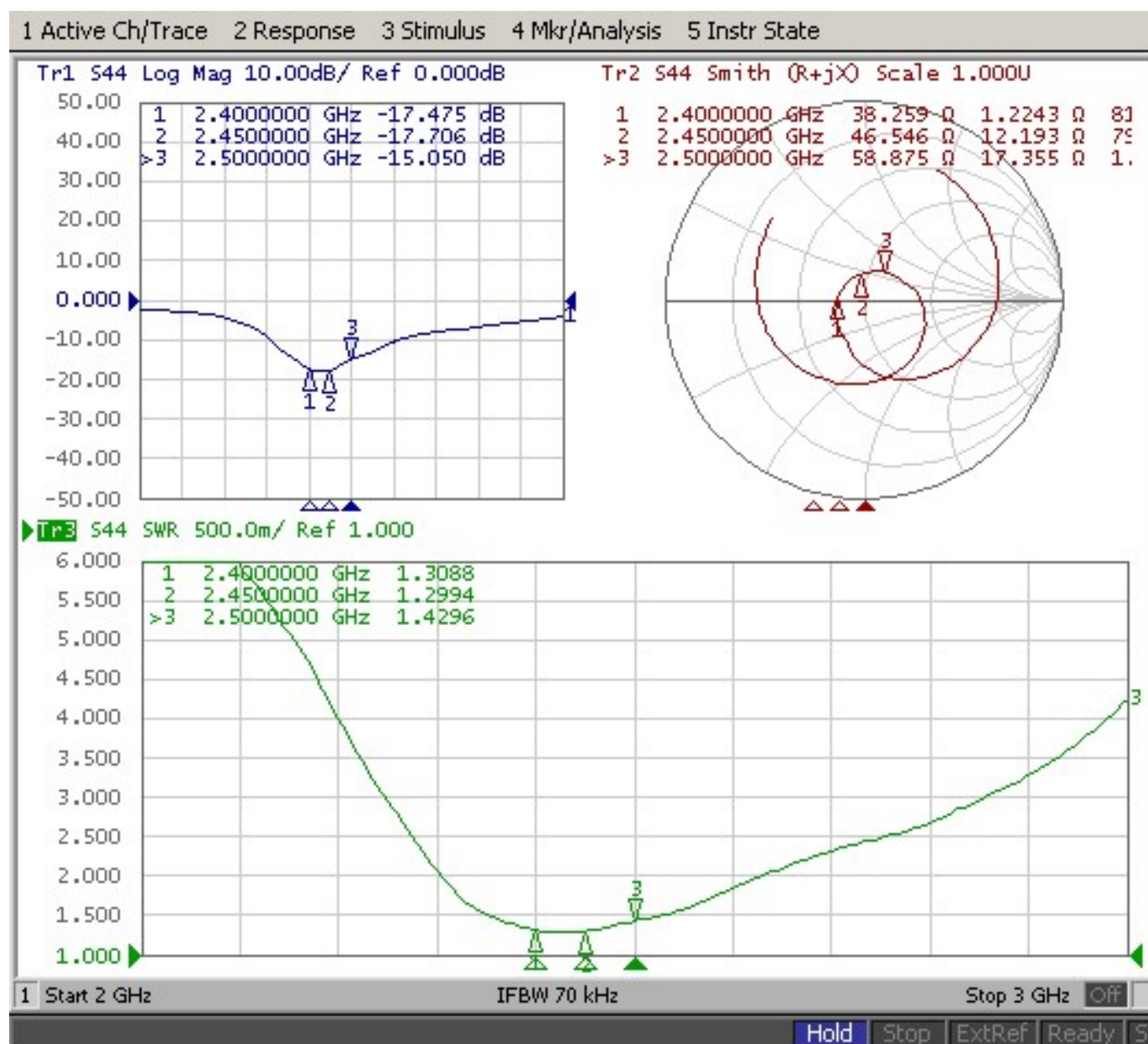
Product Name: 2.4GHz

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-Pull Test	Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 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

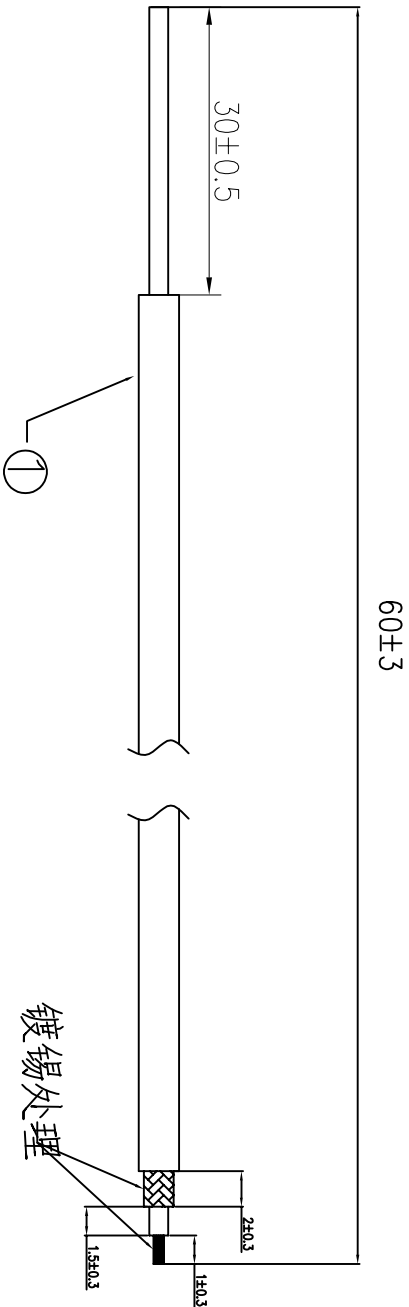
Product Number: WIFI -60MM

Product Name: 2.4GHz

3. Antenna - S Parameter Test Data



REV.	FILE No.	DRAWN BY	DATE



Note:

1、线材:RG1.13

DWG TYPE:			东莞市方格电子有限公司		TEL:13790343104		
GENERAL TOLERANCE: UNLESS OTHERWISE SPECIFIED			TITLE:		IFI天线-黑色-60MM		
X.X	±0.35	X.X'	±3°	APPD:			
X.XX	±0.25	X.XX'	±2°	CHECK:	DWG No.: 14004000012-2		
X.XXX	±0.15	X.XXX'	±1°	DRAW:	DATE: 2020.07.24	SCALE: UNIT:	PAGE:

ITEM	PART NAME	DESCRIPTION	Q'TY	REMARK
1	RF CABLE	1.13CABLE,BLACK	1	N/A