

Product Number: AN2400-150MHFIPEX

Product Name: 2.4GHz 鞭状蓝牙线

Index:

1. Specification

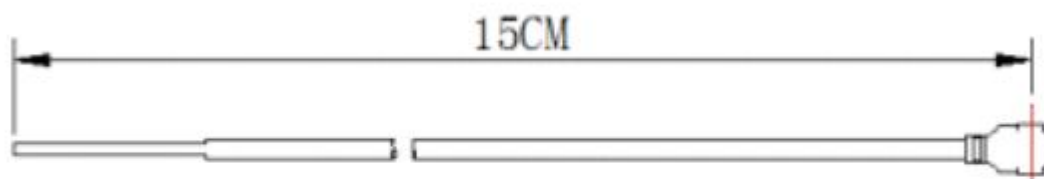
2. Characteristics and Reliability Test

3. Antenna - S Parameter Test Data

1. Specification

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A. Electrical Characteristics	
Frequency (频率范围)	2400 ~ 2500 MHz
S.W.R. (驻波比)	<= 2.0
Antenna Gain (增益)	2.54dBi
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-113 黑色 总长150mm
Cable (线材直径)	1.1mm
Connector Type (接口)	1代
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

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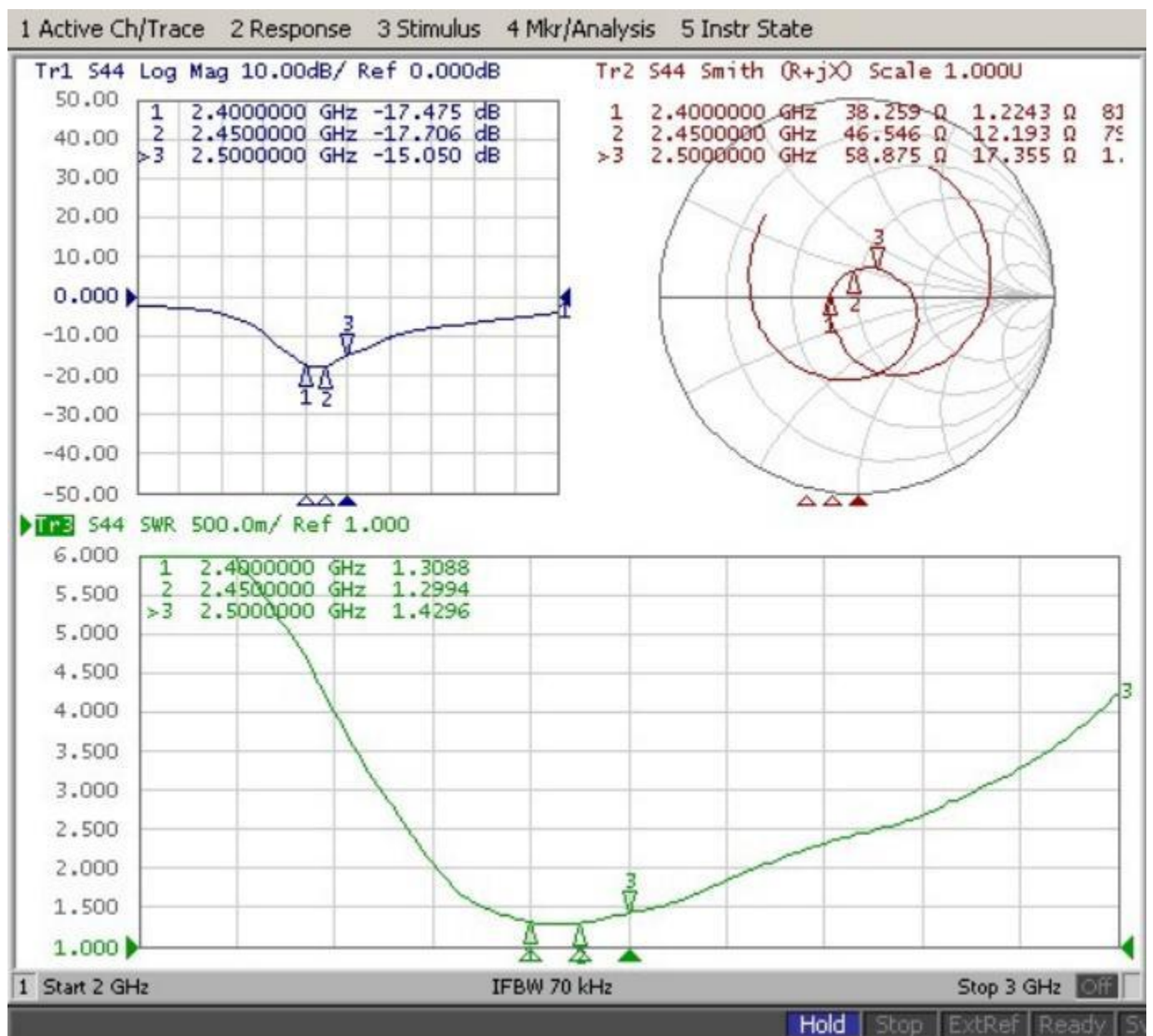
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Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT 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-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

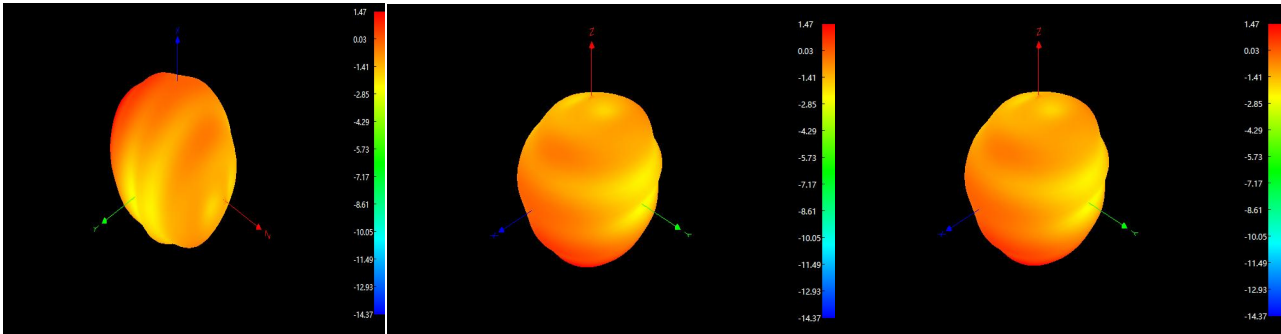
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Efficiency /效率

Frequency/Mh	Efficiency / %
2400	53.7
2410	51.17
2420	56.89
2430	52.24
2440	56.49
2450	56.89
2460	54.95
2470	60.53
2480	56.75
2490	61.38
2500	55.98

Gain/增益

Frequency/MHz	MaxGain/dBi
2400	2.26
2410	1.31
2420	2.54
2430	1.55
2440	2.44
2450	1.98
2460	2.15
2470	2.4
2480	1.98
2490	2.58
2500	1.52