Product Number: AN2400-150MHFIPEX
Product Name: 2.4GHz 鞭状蓝牙线

Index:

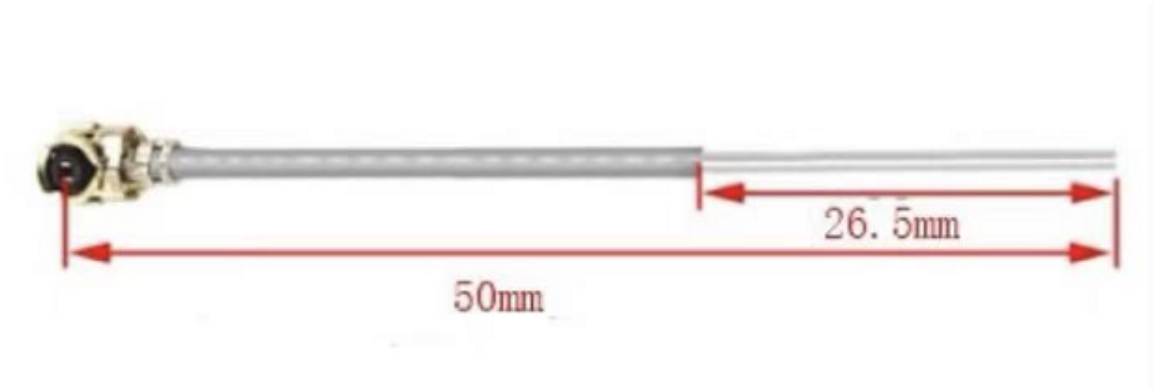
1. Specification

2. Characteristics and Reliability Test

3. Antenna - S Parameter Test Data

1. Specification

Product Number: AN2400-150MHFIPEX
Product Name: 2.4GHz 鞭状蓝牙线



A. Electrical Characteristics	
Frequency （频率范围）	**2400 ~ 2500 MHz**
S.W.R.（驻波比）	**<= 4.0**
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-113 黑色 总长50 mm**
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

Product Number: AN2400-150MHFIPEX
Product Name: 2.4GHz 鞭状蓝牙线

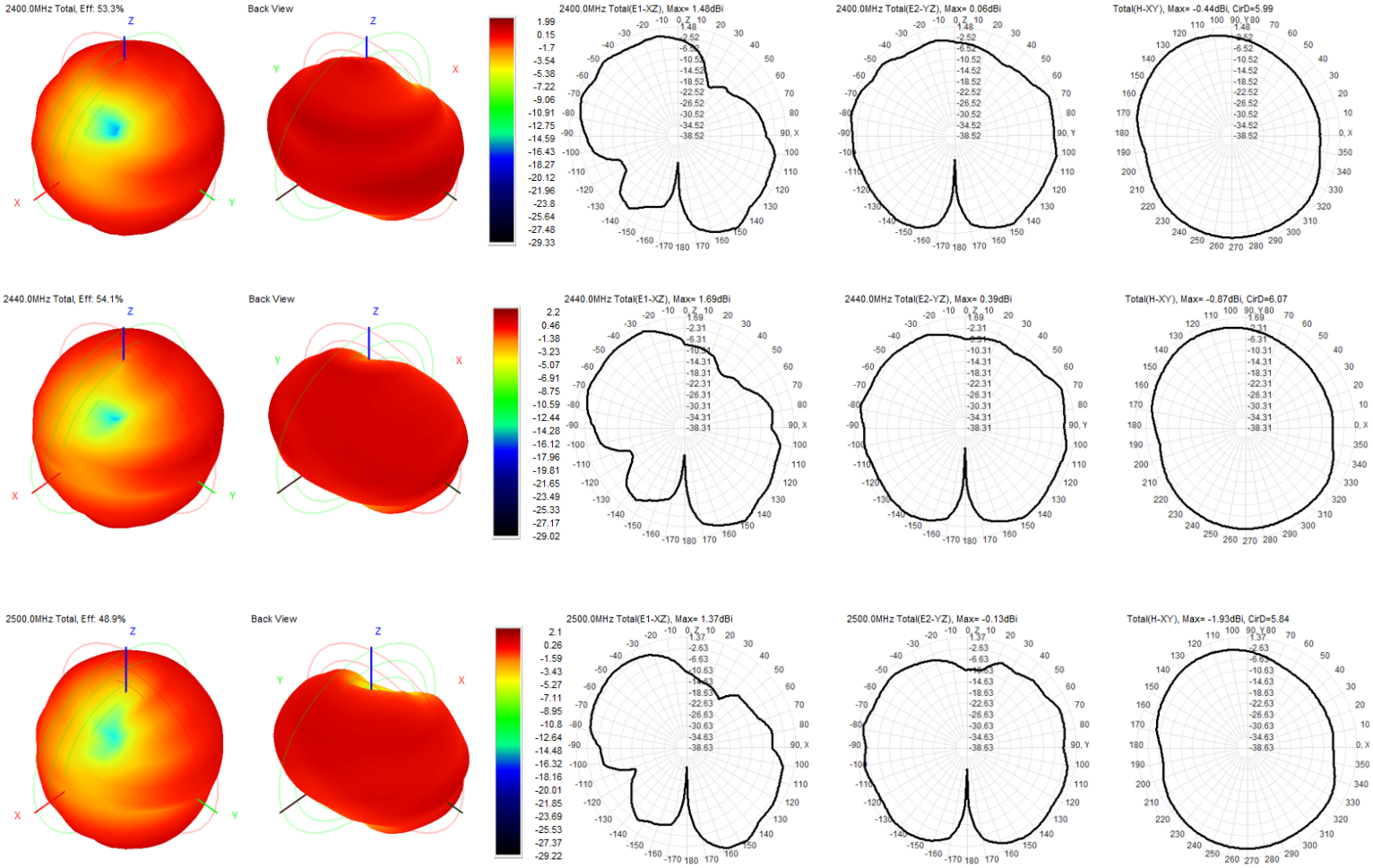
Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	GB / T2423 . 48-1997 Amplitude: 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

Product Number: AN2400-150MHFIPEX
Product Name: 2.4GHz 鞭状蓝牙线

3. Antenna - S Parameter Test Data

Product Number: AN2400-150MHFIPEX
Product Name: 2.4GHz 鞭状蓝牙线

4. Antenna - Antenna Gain Test Data

Frequency	Efficiency		Peak Gain
MHz	%	dB	dBi
2400	65%	-1.87	1.77
2440	68%	-1.66	2.20
2500	61%	-2.15	1.98

5. Antenna 2D/3D Radiation Pattern