



Shenzhen Feixun Lianke Electronics Co., Ltd

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Acknowledgment Letter

SPECIFICATION

Product Information	Customers
Product name: Built-in FPC antenna	
model:FXLK-2.4G*5G V1 JN	
specifications:FPC	

Supplier confirmation

Proofreading	Review	ratify
Huang Chih Hsiung	Yu Guanghui	Zhang Dongxiao

Proofreading	Review	ratify

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Shenzhen Feixun Lianke Antenna Specification

FXLK-2.4G*5G V1 JN

2.4GHz and 5G ISM Band Frequency



Feed Line leagth:60MM φ : 1.13



Descriptions

This antenna is designed for 2.4GHz ISM Band. Both of wireless LAN IEEE 802.11b/g/n ,Bluetooth and Zigbee .This Antenna provides a high Efficiency and good performance

The DPTX002 dipole Antenna

Following features:

- ◆ IEEE 802.11 b/g/n standards
- ◆ Single Band working
- ◆ 3.13dBi peak gain @2.45GHz
- ◆ 3.46dBi peak gain @5.50GHz
- ◆ Case mount
- ◆ Easy integration

Applications

- ◆ Wireless LAN
- ◆ ISM band 2.4GHz/5G wireless applications
- ◆ BlueTooth
- ◆ Zigbee



Electrical Specifications

Item	Specification
Frequency Range	2.4 GHz ~ 2.5GHz, 5GHz ~ 6GHz
Peak Gain	3.13dBi @ 2.45G, 3.46 @ 5.5GHz
VSWR	2 max.
Polarization	Linear
Feed Impedance	50Ω
Power handling	30dbm
Antenna dimensions	40mm×9.5mm
Operation Temperature	-40°C ~ +85°C
Antenna color	Black
Feed line color	Black



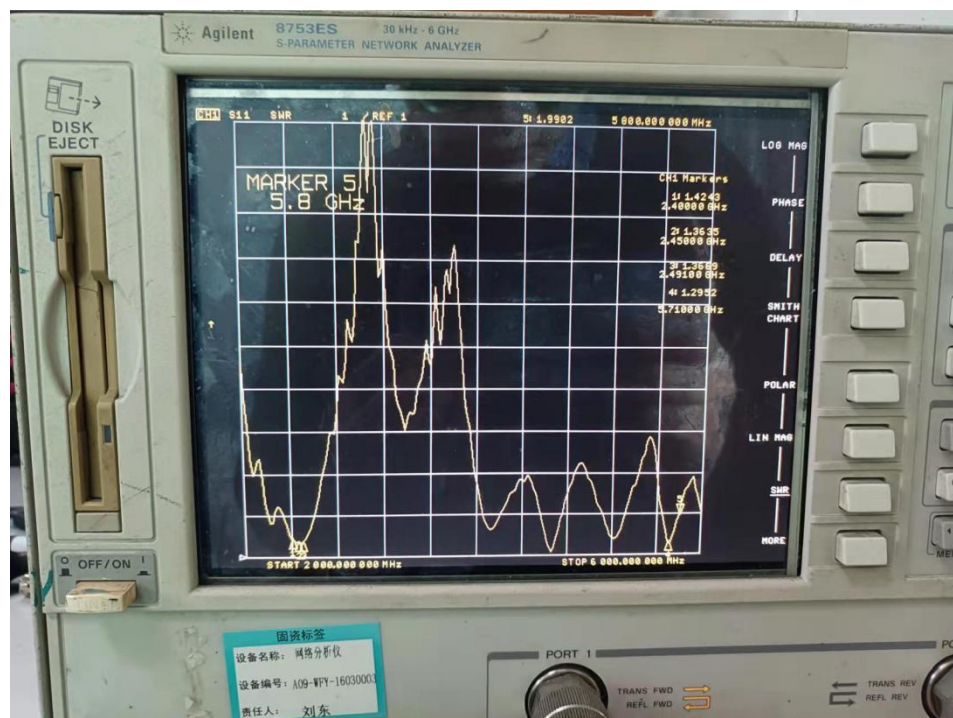
RF Cable Dimensions

FXLK-2.4G*5G V1 JN

dimensions:47.5MM*10MM



VSWR:





Antenna Test Environment;

1. Network Analysis:

Agilent 8753ES

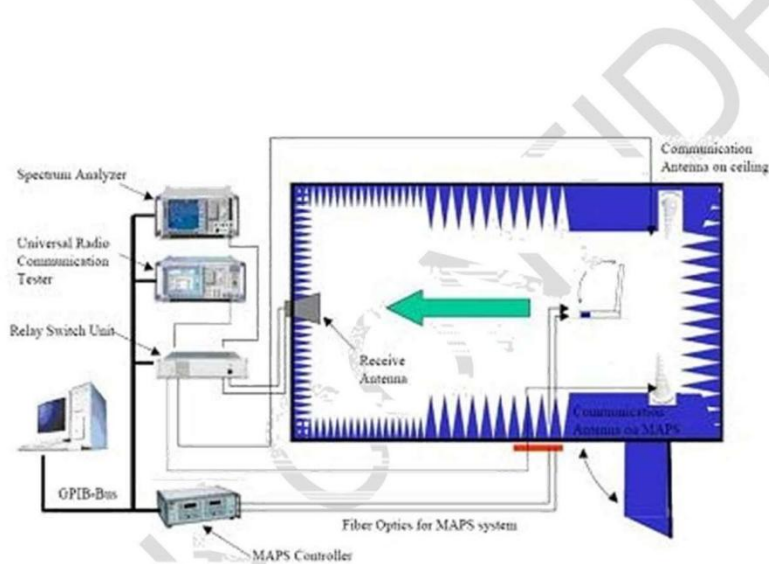
5071C

2. RF Test Equipment:

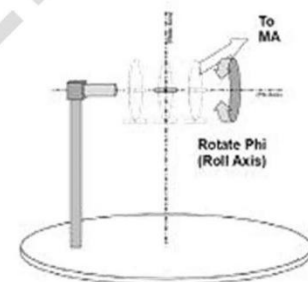
Agilent 8960

CMW500

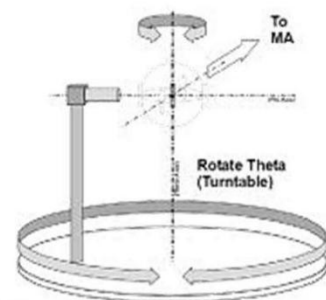
3. Shielding Rom Test Environment:



(Testing by 3D anechoic chamber)



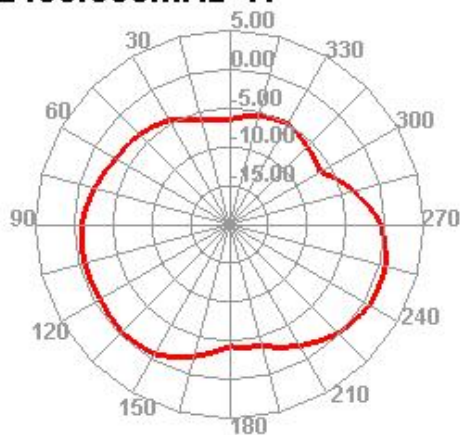
Phi axis test



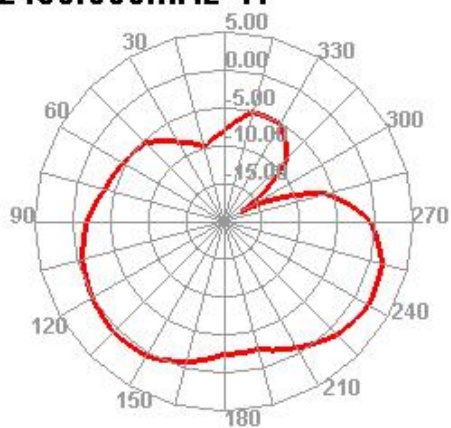
Theta axis test



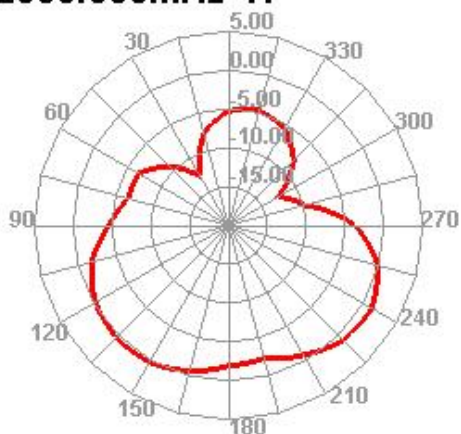
2400.000MHz H



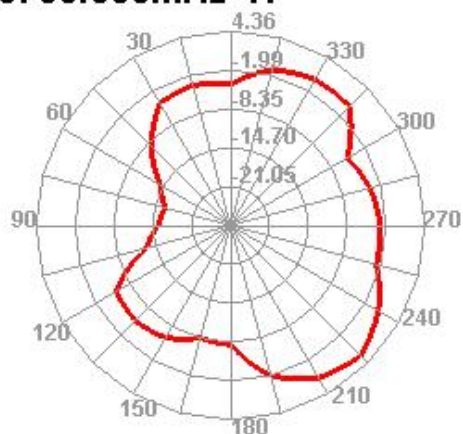
2450.000MHz H



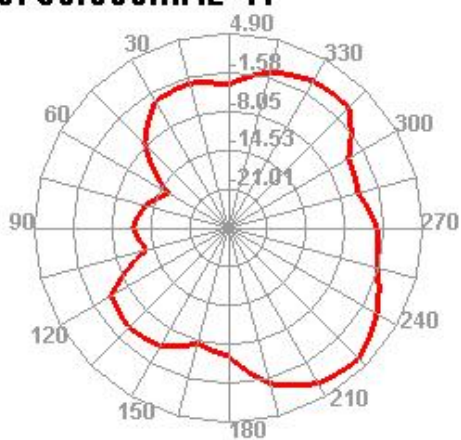
2500.000MHz H



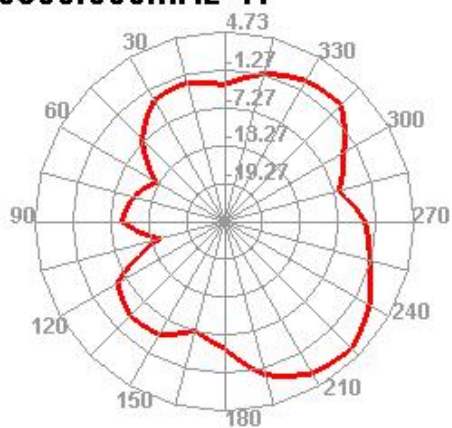
5700.000MHz H



5750.000MHz H



5800.000MHz H





Antenna Gain and Efficiency Test Results

2.4G Gain and Efficiency

Freq (MHz)	Effi (%)	Gain (dBi)
2400	51.55	2.99
2410	49.83	2.95
2420	48.33	2.83
2430	51.55	3.1
2440	48.89	2.75
2450	54.75	3.01
2460	54.62	2.75
2470	50.8	2.55
2480	56.51	3.12
2490	56	3.11
2500	57.4	3.13

5G Gain and Efficiency

Freq (MHz)	Effi (%)	Gain (dBi)
5100	53.26	2.58
5150	53.27	2.62
5200	55.53	2.82
5250	52.47	2.65
5300	58.5	3.18
5350	58.18	3.2
5400	52.82	2.8
5450	52.95	2.82
5500	58.69	3.26
5550	57.4	3.11
5600	56.08	2.96
5650	56.16	2.93
5750	60.25	3.25
5800	62.34	3.41
5850	62.26	3.46
5950	59.89	3.3



The Feed Cable Parameter

Electrical characteristics

Item	Standard value	Item	Frequency	standard Value Unit:dB/m
Capacitance(pF/m)	98	Attenuation	1GHz	≤2.2
Velocity(%)	70		2GHz	≤3.1
Impedance(Ω)	50±2		3GHz	≤3.8
Standing wave ratio	≤1.3@0~6GHz		4GHz	≤4.4
Max.operating voltage(V)	1000		5GHz	≤4.9
Max.operating frequency(GHz)	6		6GHz	≤5.4

Dependability

ITEM	Unit	Standard value
Min.bending radius static	mm	/
Operating temperature	°C	-40°C ~ +85°C