



SPECIFICATION

Supplier confirmation

Proofreading	to examine	approval
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Shenzhen Feixun Lianke Electronics Co., Ltd

FXLK-FB47x10-2.4G-5G V1 BSV

2.4GHz and 5G ISM Band Frequency

Feed Line length:150MM 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 FXLK-FB47x10-2. 4G-5G V1 BSV dipole Antenna

Following features:

- ◆ IEEE 802.11 b/g/n standards
- ◆ Single Band working
- ◆ 3.12dBi peak gain @2.45GHz
- ◆ 3.46dBi peak gain @5.80GHz
- ◆ Case mount
- ◆ Easy integration

Applications

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



Electrical Specifications

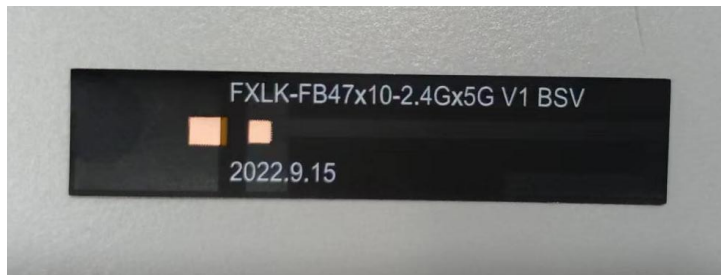
Item	Specification
Frequency Range	2.4 GHz ~ 2.5GHz, 5GHz ~ 6GHz
Peak Gain	3.12dBi @ 2.45G, 3.46dBi @ 5.8GHz
VSWR	2 max.
Polarization	Linear
Feed Impedance	50Ω
Power handling	30dbm
Antenna dimensions	47mm×10mm
Operation Temperature	-40°C ~ +85°C
Antenna color	Black
Feed line color	Black



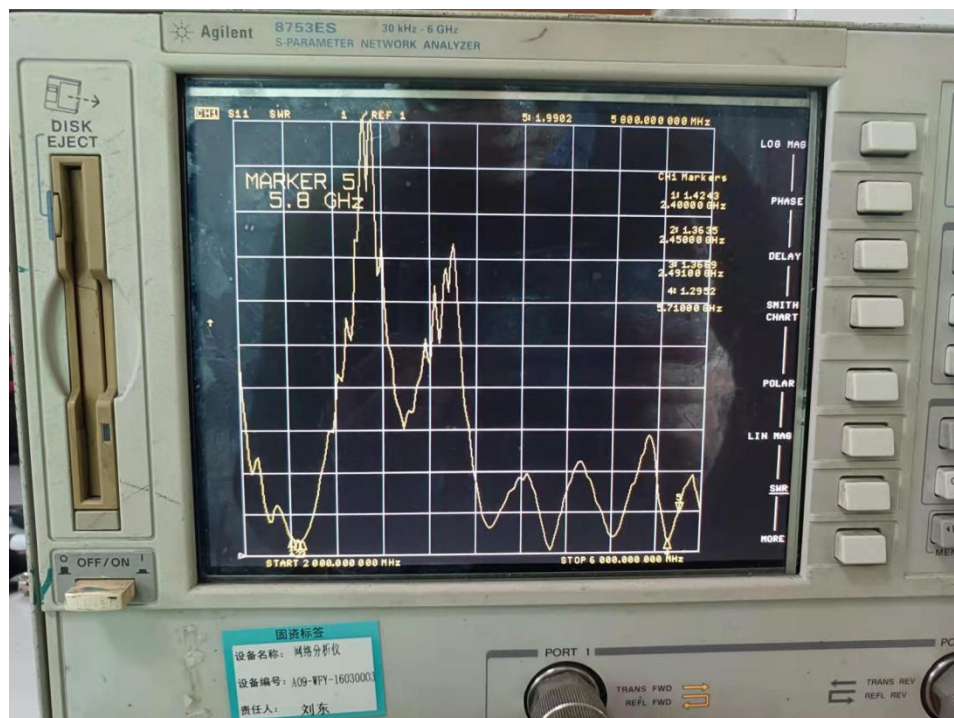
RF Cable Dimensions

FXLK-FB47x10-2.4G-5G V1 BSV

dimensions:47MM*10MM



VSWR:





Antenna Test Environment;

1. Network Analysis:

Agilent 8753ES

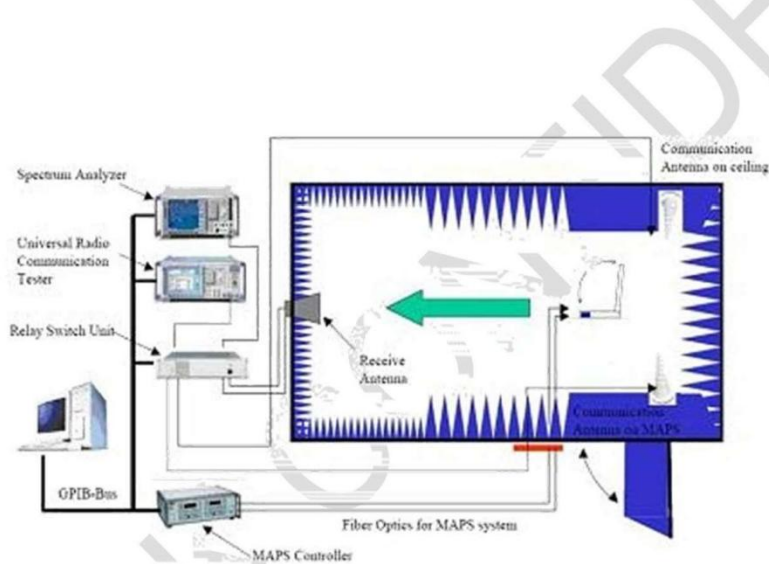
5071C

2. RF Test Equipment:

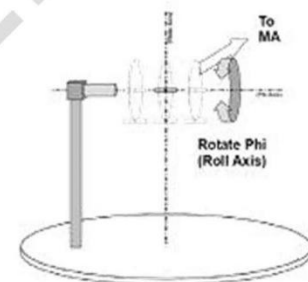
Agilent 8960

CMW500

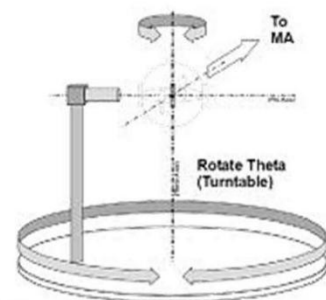
3. Shielding Rom Test Environment:



(Testing by 3D anechoic chamber)



Phi axis test

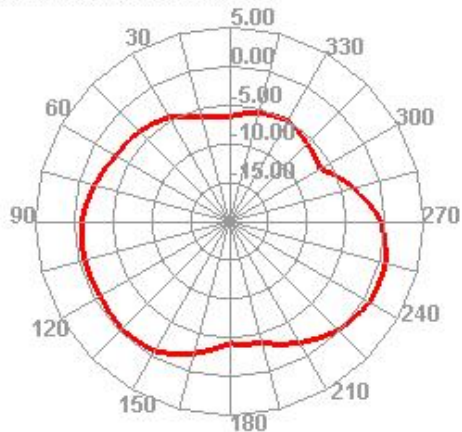


Theta axis test

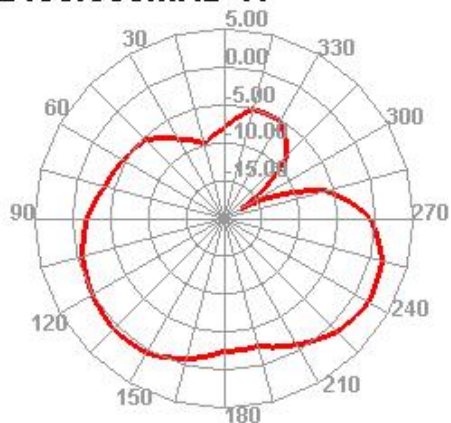


WIFI:

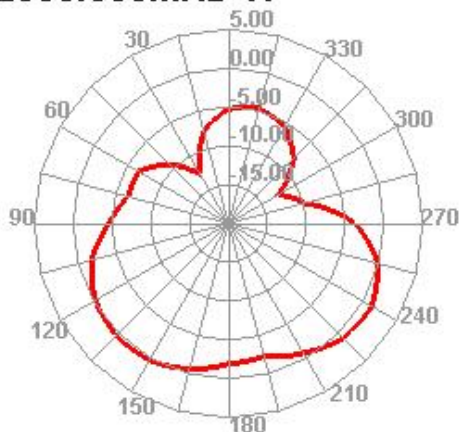
2400.000MHz H



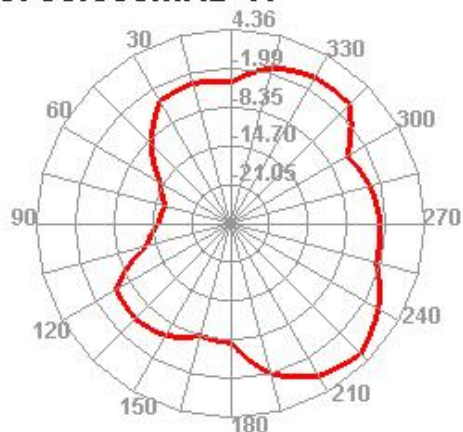
2450.000MHz H



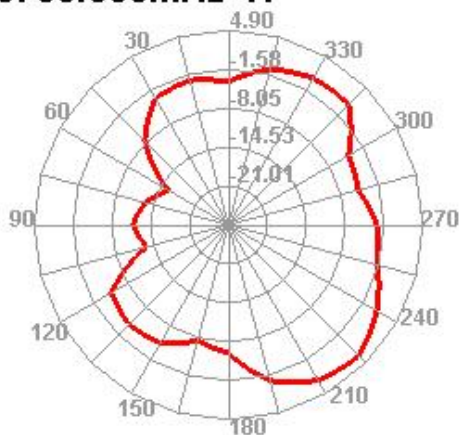
2500.000MHz H



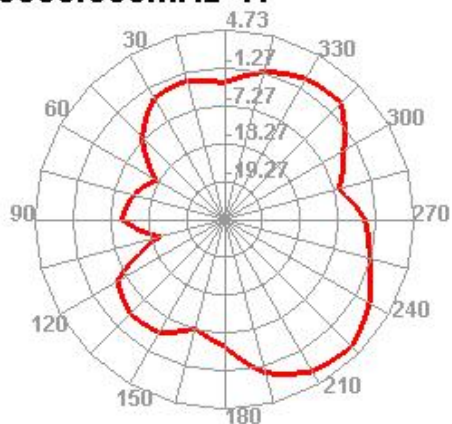
5700.000MHz H



5750.000MHz H



5800.000MHz H





WIFI:

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

5.8G Gain and Efficiency

Freq (MHz)	Effi (%)	Gain (dBi)
5700	53.26	2.58
5710	53.27	2.62
5720	55.53	2.82
5730	52.47	2.65
5740	58.5	3.18
5750	58.18	3.2
5760	52.82	2.8
5770	52.95	2.82
5780	58.69	3.26
5790	57.4	3.11
5800	56.08	2.96
5810	56.16	2.93
5820	60.25	3.25
5830	62.34	3.41
5840	62.26	3.46
5850	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