Shenzhen Feixun Lianke Electronics Co., Ltd

Acknowledgment
SPECIFCATION

Product data	Customer information
Product name: built-in FPC antenna	Customer name: Bestway
Product model:FXLK-FB47x10-2.4G-5G V1 BSV	Operating model: F18 (X10)
Specification summary: FPC flexible board FXLK-FB47x10-2.4G-5G V1 BSV generation terminal black wire length 155mm Material	Item No.:

Supplier confirmation

Proofread	examine	approval
Huang Zhixiong	Yu Guanghui	Zhang Dongxiao

Purchaser's confirmation

Proofread	examine	approval
conclusion:		

Address: 5/F, Building A2, Jinxiangfu Industrial Park, Jiuwei, Xixiang, Bao'an, Shenzhen

Company Tel: 0755 － 32936320 Company Fax: 0755 － 32936320

Contact: Yu Guanghui Tel.: 13715357616

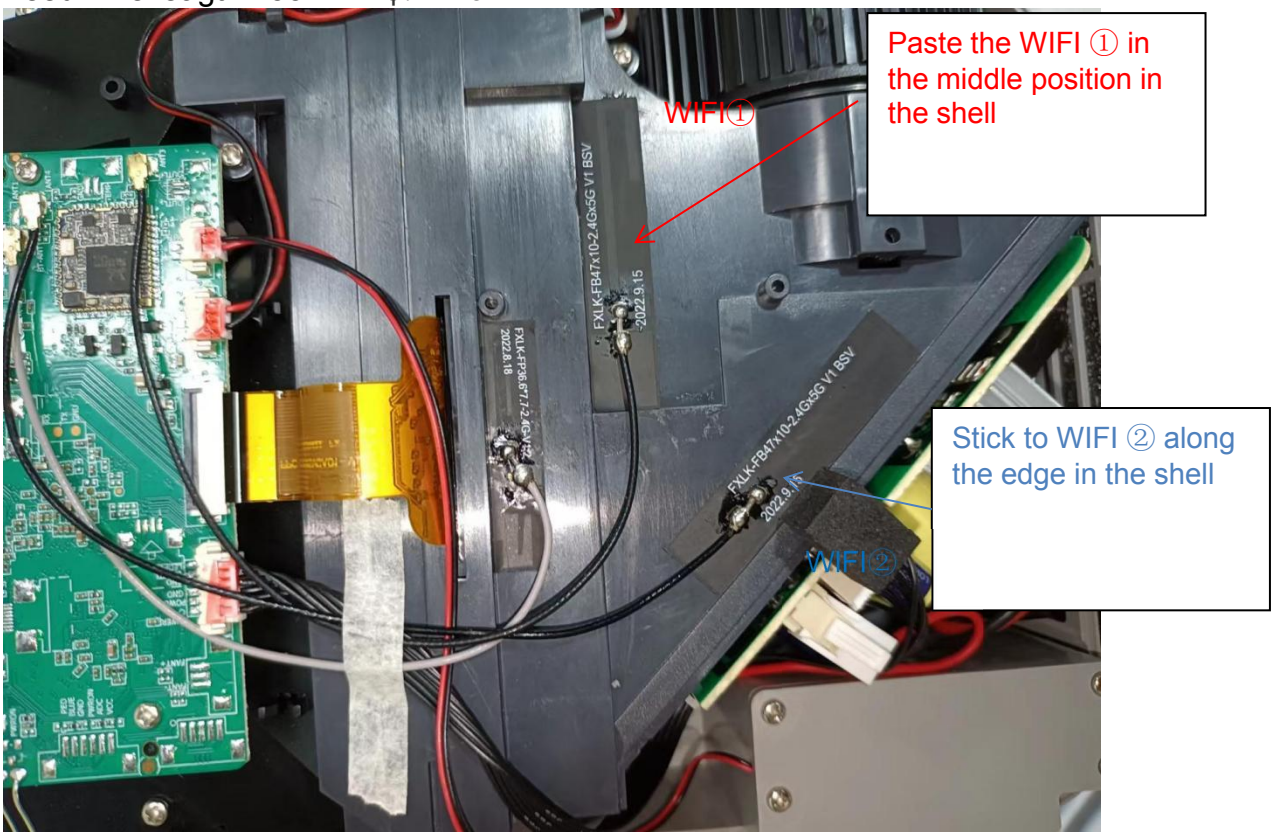
Website: www.feixunlianke.com/E-mail: ygh7616@163.COM

Shenzhen Feixun Lianke Antenna Specification

FXLK-FB47x10-2.4G-5G V1 BSV

2.4GHz and 5G ISM Band Frequency

Feed Line leagth:155MM φ：1.13



During the production process, please stick to the antenna according to the antenna position, otherwise the antenna performance will be affected

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
- 3.13dBi peak gain @2.45GHz
- 3.46dBi peak gain @5GHz
- Case mount
- Easy integration

Applications

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

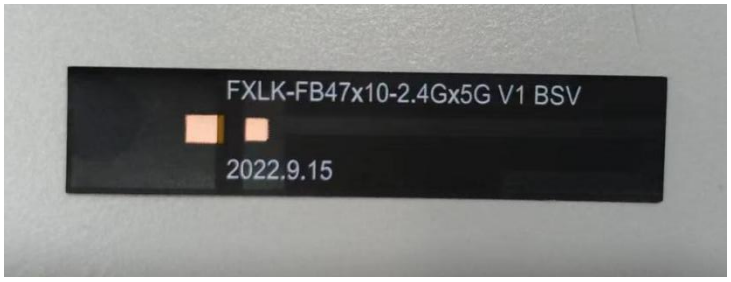
Electrical Specifications

Item	Specification
Frequency Range	2.4 GHz ~ 2.5GHz，5GHz ~ 6GHz
Peak Gain	3.13dBi @ 2.45G，3.46 @ 5GHz
VSWR	2 max.
Polarization	Linear
Feed Impedance	50Ω
Power handling	30dbm
Antenna dimensions	47㎜×10㎜
Operation Temperature	-40°C ~ +85°C
Antenna color	Black
Feed line color	Black

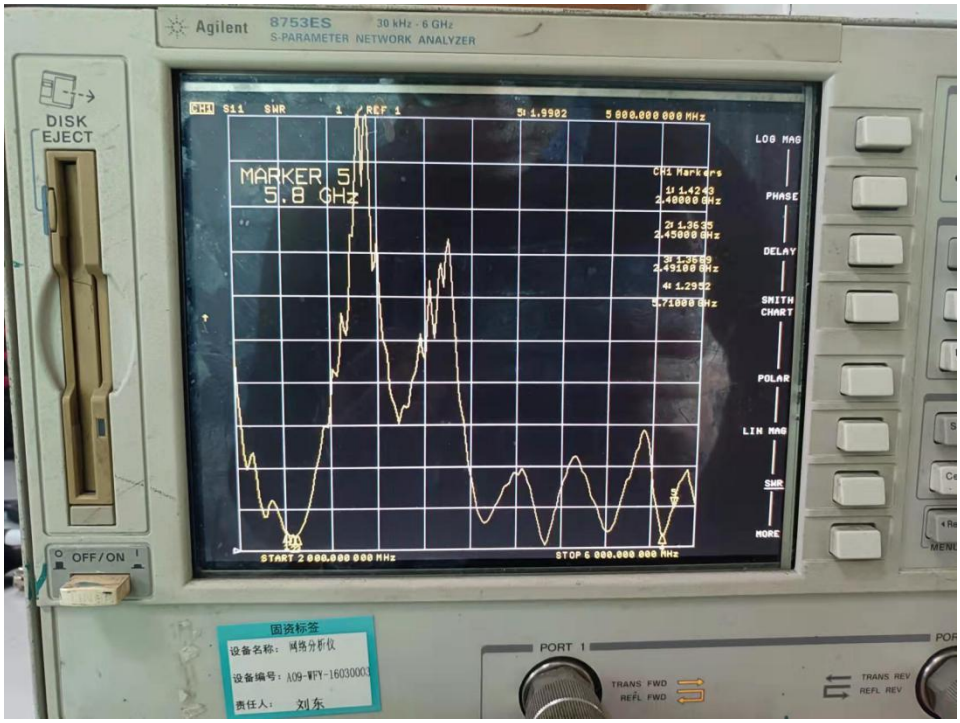
RF Cable Dimensions

FXLK-FB47x10-2.4G-5G V1 BSV

dimensions:47MM*10MM



VSWR:



Antenna Test Environment:

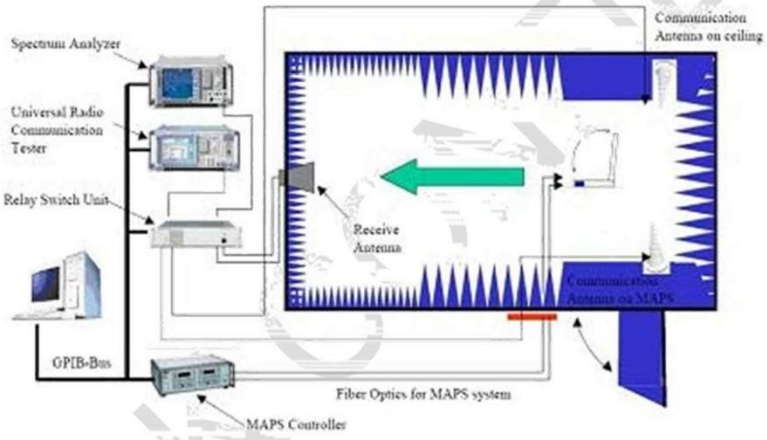
1. Network Analysis:

Agilent 8753ES 5071C

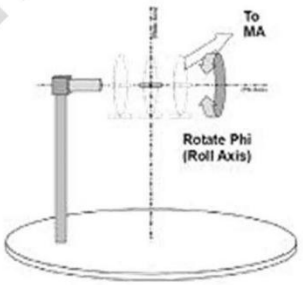
2. RF Test Equipment:

Agilent 8960 CMW500

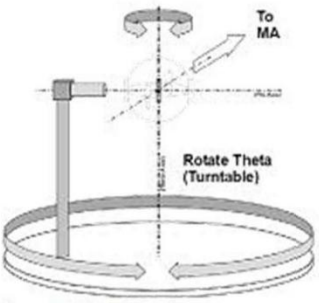
3. Shielding Rom Test Environment:



(Testing by 3D anechoic chamber)



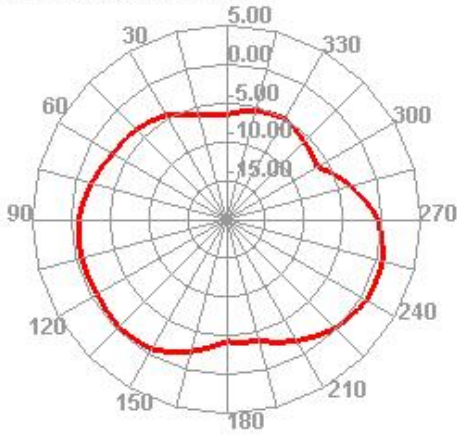
Phi axis test



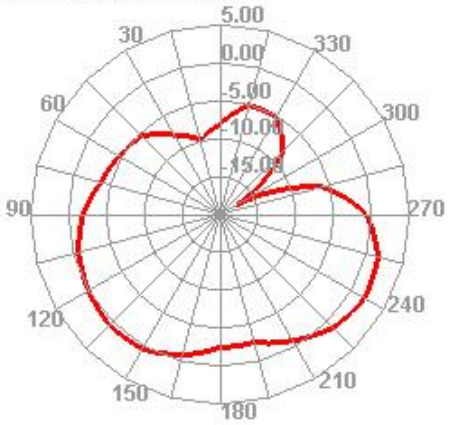
Theta axis test

WIFI：

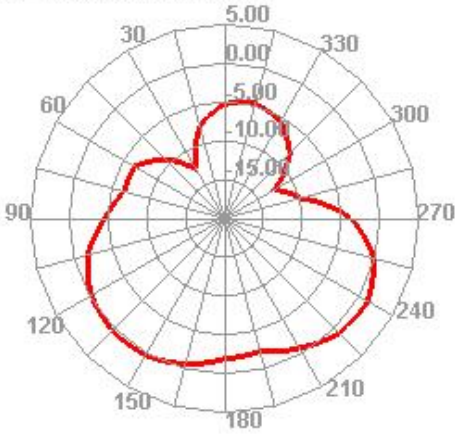
2400.000MHz H



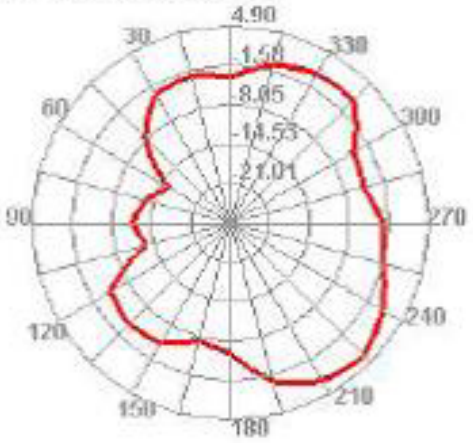
2450.000MHz H



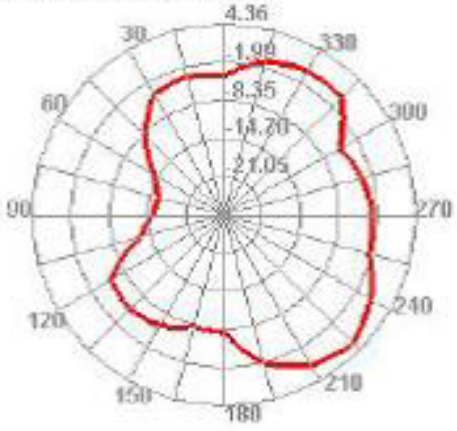
2500.000MHz H



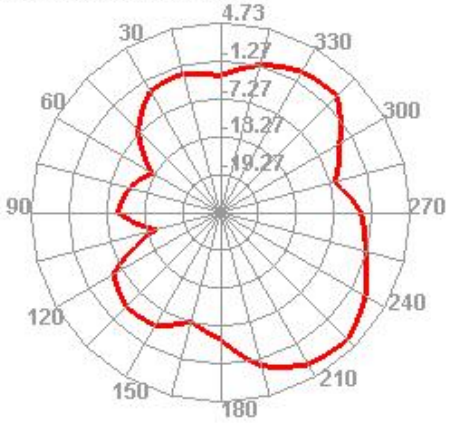
5100.000MHz H



5500.000MHz 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

5G Gain and Efficiency

Freq (MHz)	Effi (%)	Gain (dBi)
5100	49.5	2.85
5200	48.5	3.2
5300	47.9	3.3
5400	48.6	3.11
5500	50.5	3.29
5600	51.4	2.18
5700	52.3	3.46
5800	52.4	3
5850	51.3	2.47

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	℃	-40°C ~ +85°C