深圳市飞讯联科电子有限公司

Shenzhen Feixun United Electronics Co., LTD

承 认 书

SPECIFCATION

产品资料	客户资料
产品名称:内置FPC天线	客户名称： 百思威
产品型号:FXLK-FB47x10-2.4G-5G V1 BSV	使用机型： H700
规格摘要:FPC软板FXLK-FB47x10-2.4G&5G V1 BSV 一代端子 黑色 线长100mm 焊线规格1+2+2	物料编号:

供方确认

校 对	审 核	批 准
黄志雄	余光辉	张冬晓

购方确认

校 对	审 核	批 准
结论：		

Address：**5 / F, Building A2, Jinxiangfu Industrial Park, Jiuwei, Xixiang, Baoan, Shenzhen, China**

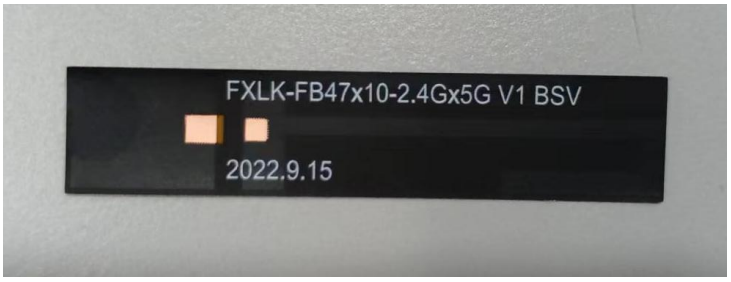
公司电话：**0755－32936320** 公司传真：**0755－32936320**
联 系 人：余光辉 联系电话：**13715357616**
网址：**www.feixunlianke.com/** **E-mail:** ygh7616@163.COM

深圳市飞讯联科天线规格书

FXLK-FB47x10-2.4G-5G V1 BSV

2.4GHz and 5G ISM Band Frequency

dimensions:47MM*10MM



Feed Line leagth:100MM 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
- 3.01dBi peak gain @2.45GHz
- 2.96dBi peak gain @5.80GHz
- Case mount
- Easy integration

Applications

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

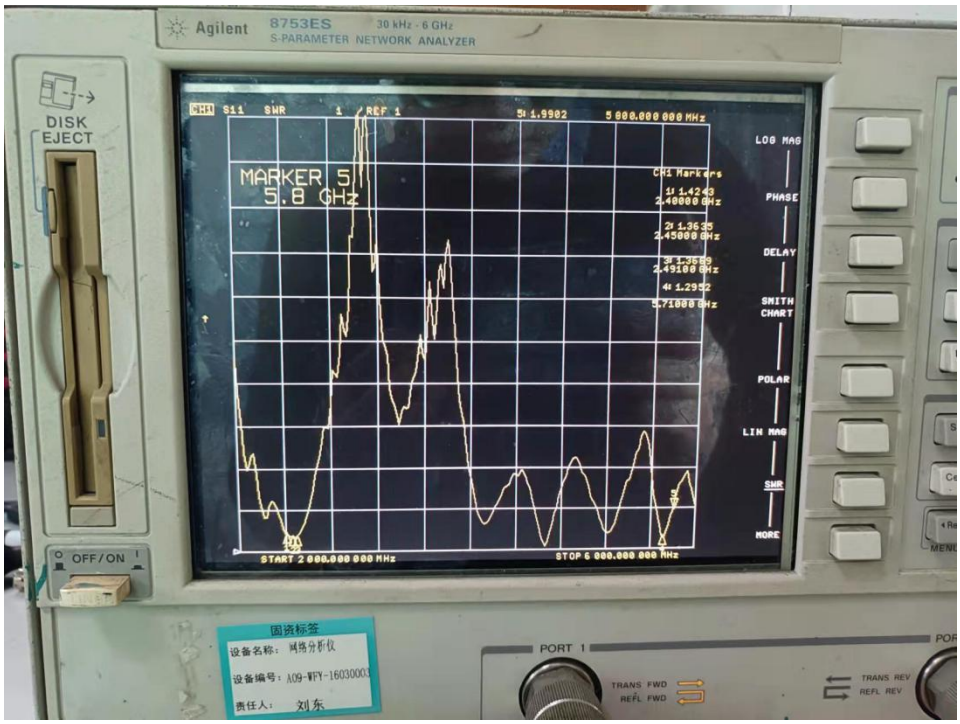
Electrical Specifications

Item	Specification
Frequency Range	2.4 GHz ~ 2.5GHz，5GHz ~ 6GHz
Peak Gain	3.13dBi @ 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

VSWR:



Antenna Test Environment:

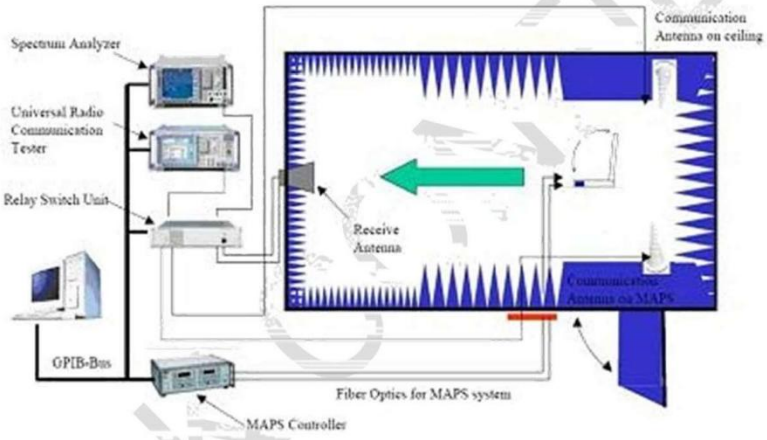
1. Network Analysis:

Agilent 8753ES 5071C

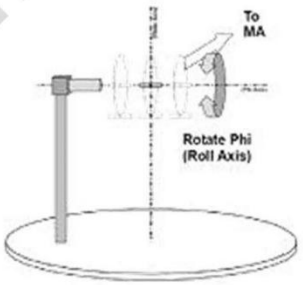
2. RF Test Equipment:

Agilent 8960 CMW500

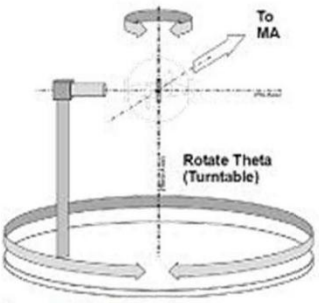
3. Shielding Rom Test Environment:



(Testing by 3D anechoic chamber)



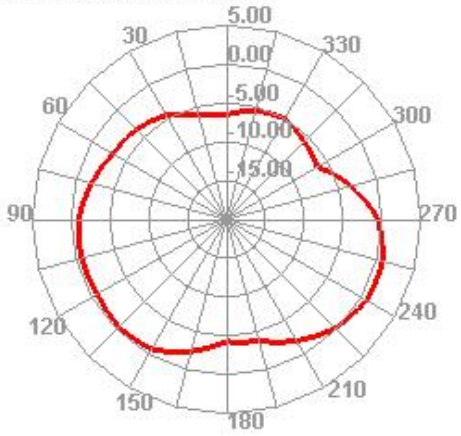
Phi axis test



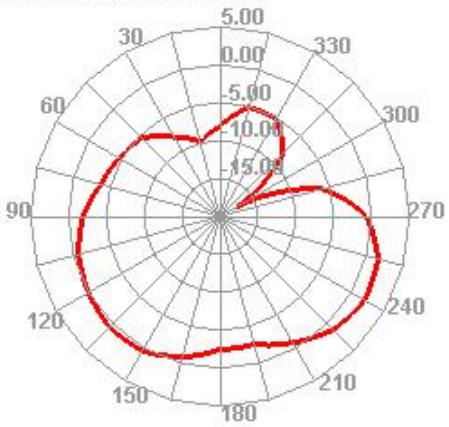
Theta axis test

WIFI：

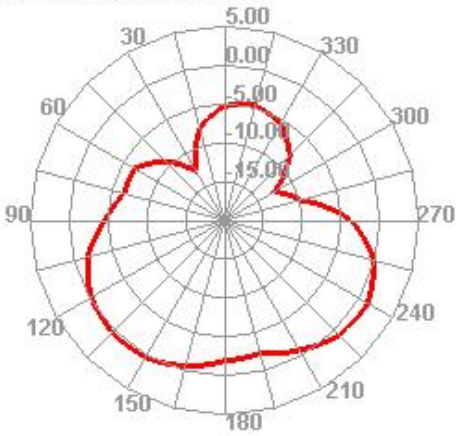
2400.000MHz H



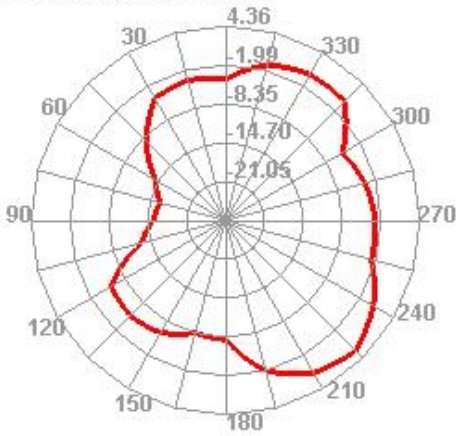
2450.000MHz H



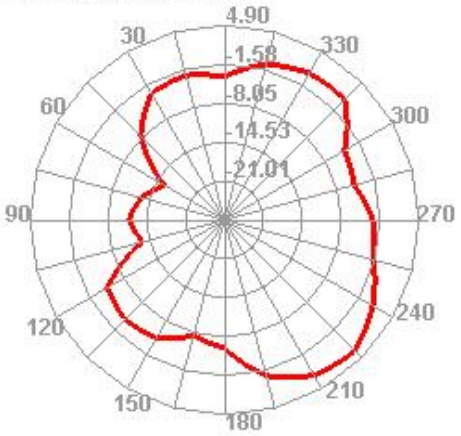
2500.000MHz H



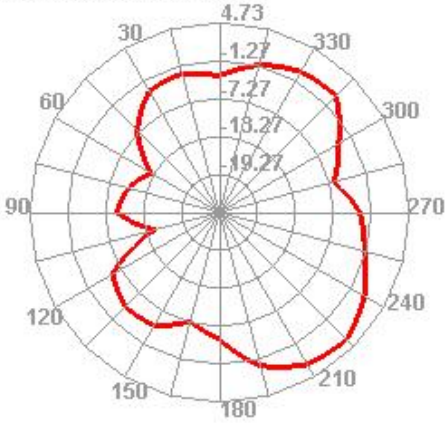
5700.000MHz H



5750.000MHz H



5800.000MHz H



WIFI：

Antenna Gain and Efficiency Test Results

2.4G Gain and Efficiency

2.4G										
Fred (MHz)	Effi (%)	Effi (%)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut (Hor)	Attenut (Ver)
2400	44.38	-2.79	2.26	0.12	40.28	13.32	2.29	-23.79	48.26	49.33
2410	44.63	-2.46	2.66	0.52	42.42	13.54	2.46	-21.29	48.66	49.58
2420	44.94	-2.12	2.82	0.68	40.96	14.77	2.68	-20.97	48.71	49.88
2430	44.27	-2.70	2.40	0.26	43.24	15.23	2.29	-22.77	48.21	49.35
2440	44.75	-2.39	2.00	-0.14	40.71	15.79	2.53	-25.39	48.58	49.56
2450	44.82	-1.83	2.50	0.36	41.19	16.18	3.15	-21.98	49.11	49.99
2460	44.28	-2.63	3.13	0.99	42.39	18.25	2.31	-25.62	48.37	49.22
2470	44.49	-2.34	2.44	0.30	41.78	18.80	2.50	-24.31	48.50	49.54
2480	45.08	-2.23	2.00	-0.14	40.89	19.05	3.14	-23.23	48.98	49.99
2490	44.21	-2.68	2.25	0.11	43.21	19.23	2.35	-21.77	48.24	49.20
2500	44.46	-2.32	2.61	0.47	40.44	19.62	2.48	-20.30	48.48	49.61

5G Gain and Efficiency

5G										
Fred (MHz)	Effi (%)	Effi (%)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut (Hor)	Attenut (Ver)
4900	60.30	-0.78	2.23	0.09	49.26	35.28	3.29	-19.67	63.32	61.32
5000	60.53	-0.44	2.59	0.45	51.69	37.77	4.68	-22.38	65.59	62.75
5100	60.61	-0.25	2.80	0.66	52.92	34.93	3.92	-21.31	64.12	64.84
5200	60.27	-0.69	2.34	0.20	48.24	39.31	3.29	-19.74	63.35	62.37
5300	60.49	-0.35	2.48	0.34	46.80	30.79	2.76	-18.23	64.73	63.76
5400	60.96	-0.35	2.08	-0.06	50.15	30.89	3.81	-25.32	64.01	60.93
5500	60.30	-0.75	2.31	0.17	51.34	29.28	4.22	-23.61	66.30	62.24
5600	60.73	-0.58	2.53	0.39	49.59	26.70	3.76	-16.47	63.78	61.77
5700	60.76	0.16	2.78	0.64	53.11	26.16	4.78	-17.26	64.16	61.86
5800	60.21	-0.63	3.46	1.32	45.22	34.40	3.21	-15.65	62.26	63.31
5900	60.47	-0.28	2.41	0.27	49.45	35.48	3.56	-18.42	63.54	62.65

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