

## WIFI FPC Antenna Specification

**Customer Name:**

**Customer PN:**

**LB-LINK PN:** 10018446

**Provide By:** Bo li

**Checked By:** Xing Yu Ding

**Date:** 2018/05/09

**Customer Check By:**

**Date:**

## Contents

Antenna introducing .....	P3
Antenna useful area .....	P4
Antenna size.....	P5
Antenna electrical properties.....	P6
Antenna S-parameter.....	P7
Antenna chamber structure.....	P8
Antenna total gain and efficiency.....	P9
Radiation Pattern E_PLANE.....	P10
Radiation Pattern H_PLANE.....	P12

## Antenna introducing

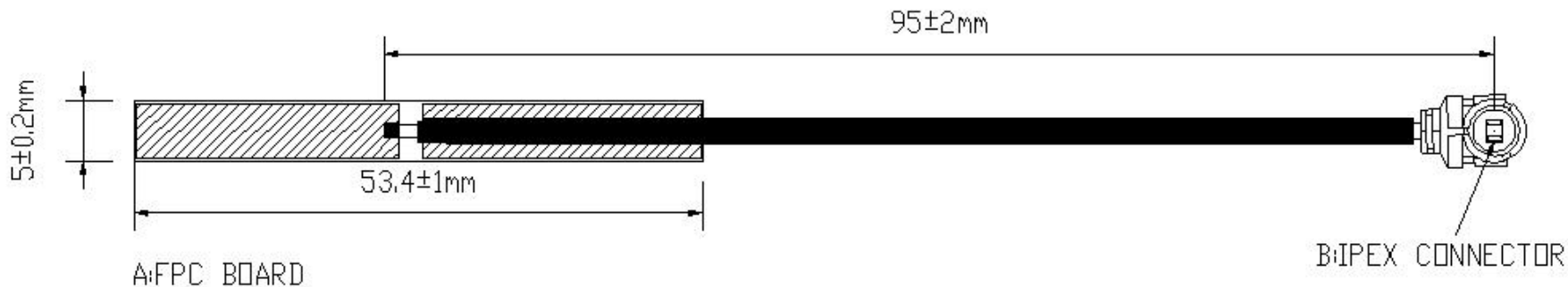
- ◆ Made by copper pipe material, work in 2.4~2.5GHz .
- ◆ Design by dipole antenna theory.
- ◆ High gain, High efficiency, Good port matching.
- ◆ Make wireless equipments better communication.

## Antenna useful area

- ◆ Pads, note-book, reader and so on.
- ◆ IP camera, set top box and so on.
- ◆ DVD player, TV and consumer electronics.

## Antenna size

53.4mm\*5mm\*0.17mm(not with cable length)

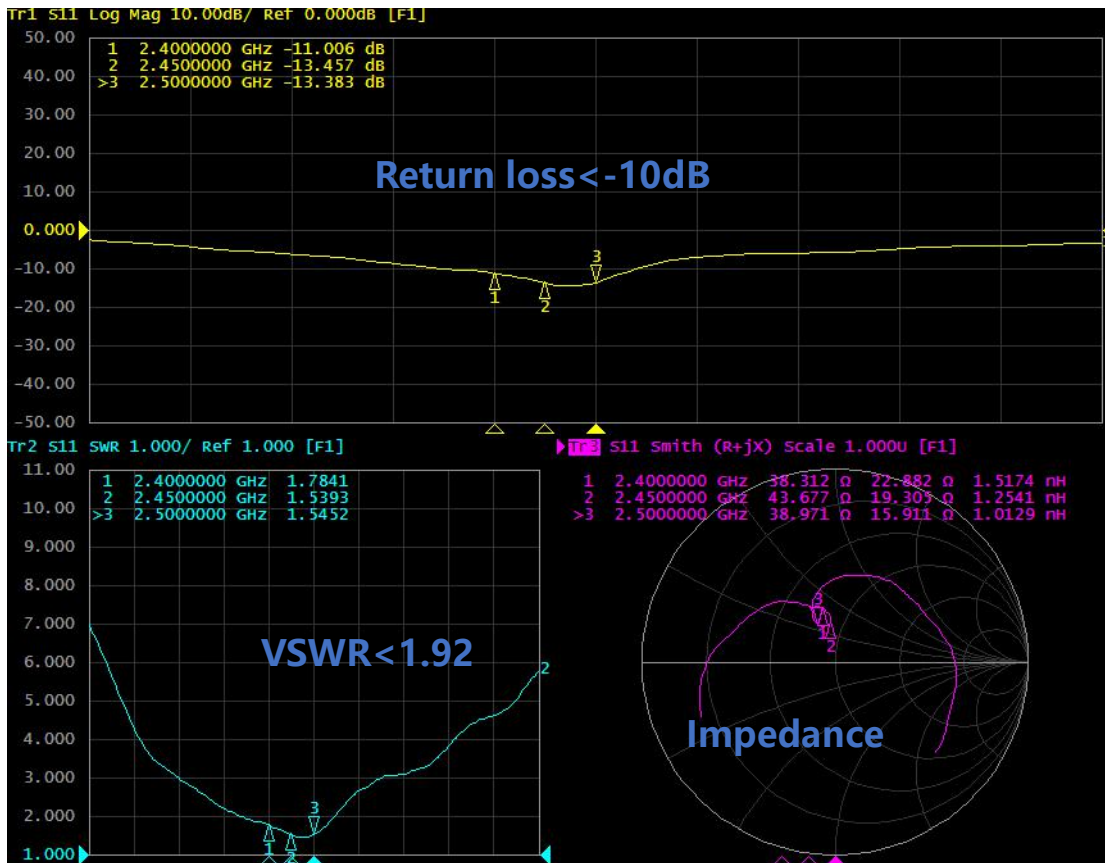


The cable is RF-Φ1.13 cable with IPEX and length is 95mm

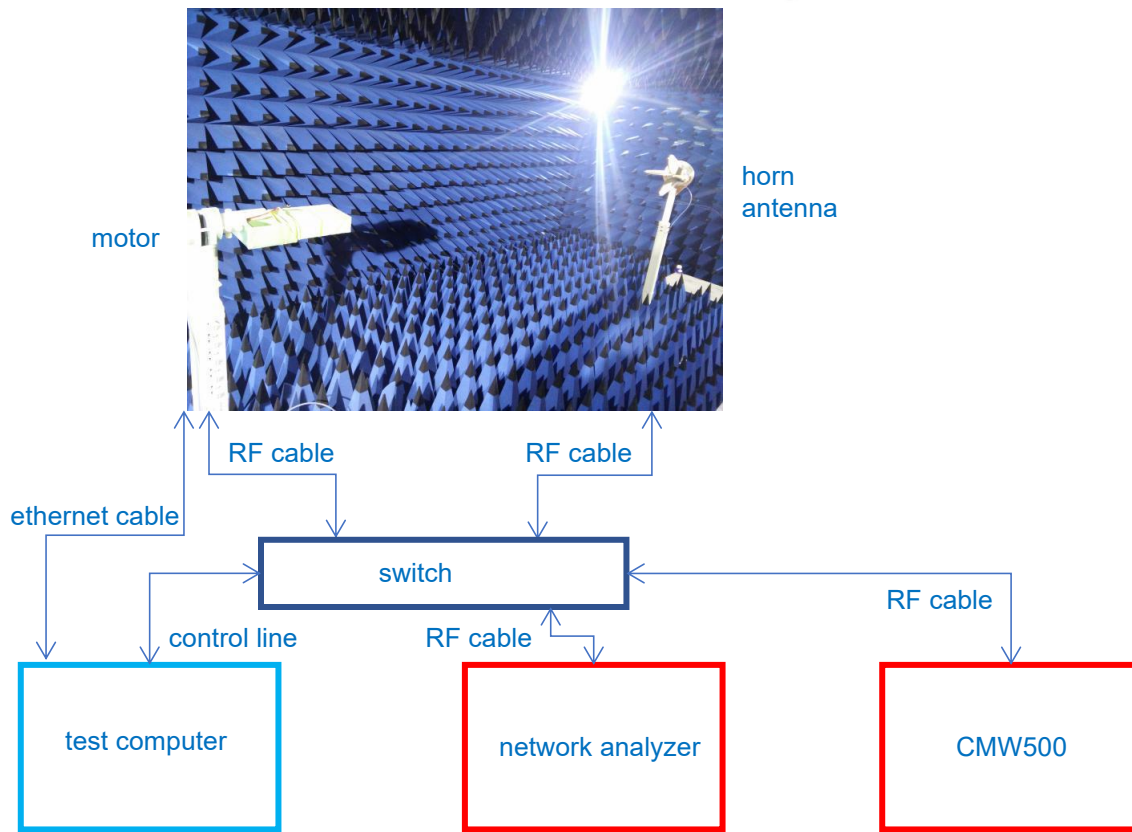
## Antenna electrical properties

Frequency	2.4~2.5GHz
Impedance	50ohm nominal
V.S.W.R	≤2
Return loss	≤-8dB
Radiation	Omni-directional
Gain(Peak)	2.5dBi
Polarization	Linear
Admitted Power	2W
Connector	IPEX
Efficiency	65%
Cable	RF Φ1.13 cable and length is 95mm

## Antenna S-parameter



## Antenna chamber structure

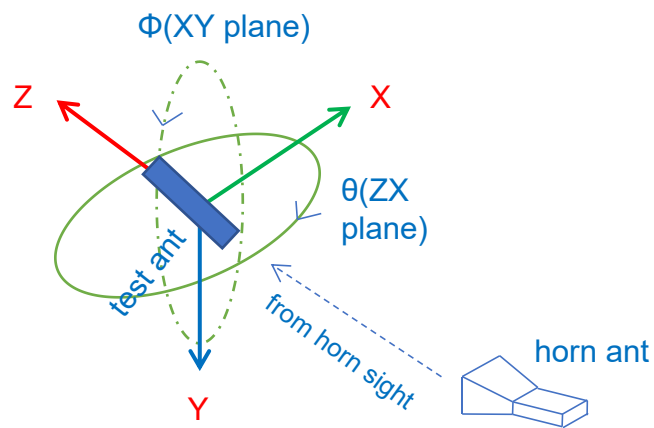
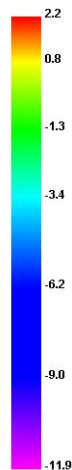
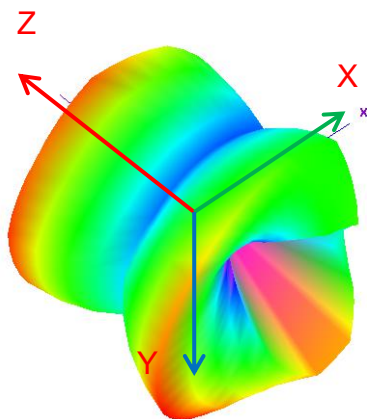




## Antenna total gain and efficiency

	Freq. (MHz)	Gain (dBi)	Efficiency (%)
FPC_ANT	2400	2.2	66%
	2450	2.5	67%
	2500	2.0	62%

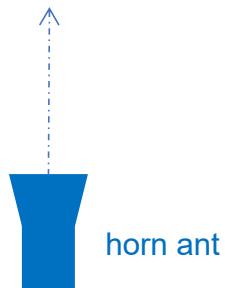
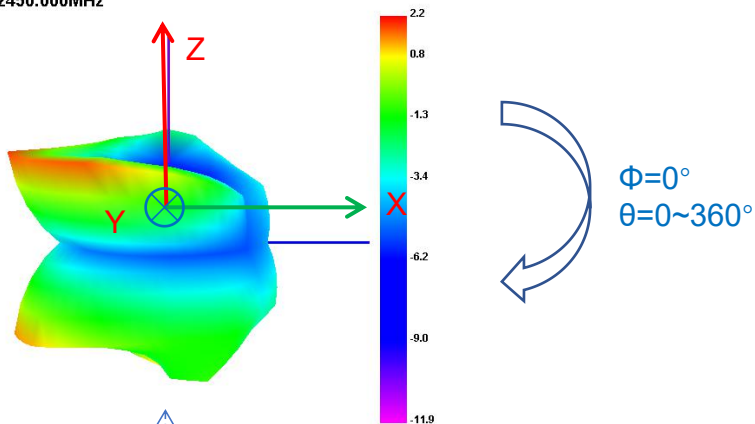
2450.000MHz



## Radiation Pattern E\_PLANE

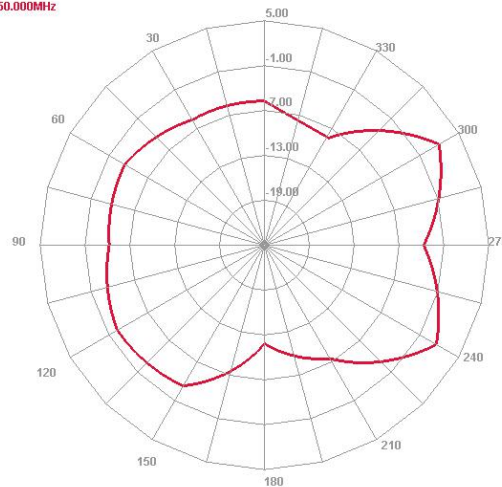
	Freq. (MHz)	Gain (dB)
FPC_ANT	2450	2.5

2450.000MHz



E1 Face

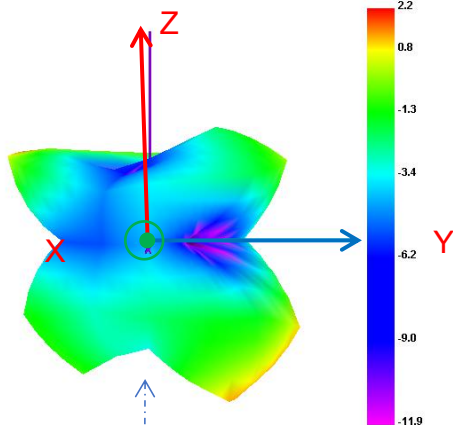
2450.000MHz



Far field E1\_PLANE  
 $\Phi=0^\circ$ , ZX plane

	Freq. (MHz)	Gain (dB)
FPC_ANT	2450	2.45

2450.000MHz



$\Phi=90^\circ$   
 $\theta=0\sim 360^\circ$

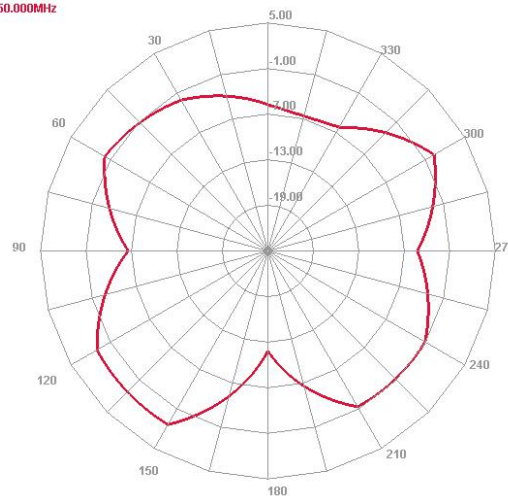


horn ant

Far field E2\_PLANE  
 $\Phi=90^\circ$ , ZY plane

E2 Face

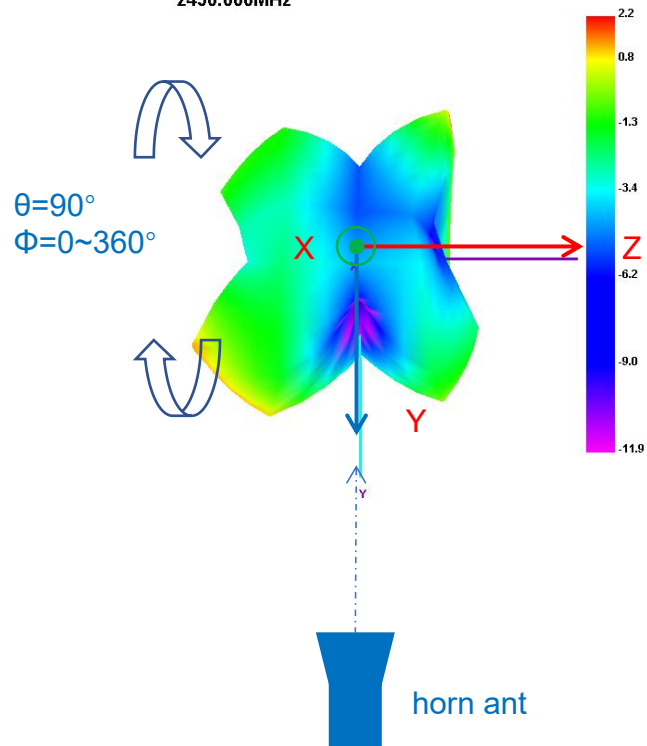
2450.000MHz



## Radiation Pattern H\_PLANE

	Freq. (MHz)	Gain (dB)
FPC_ANT	2450	2.54

2450.000MHz



## Horizontal

2450.000MHz

