

WIFI FPC Antenna Specification

Customer Name:

Customer PN:

LB-LINK PN: 10018446

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Date: 2018/05/09

Customer Check By:

Date:

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Antenna introducing

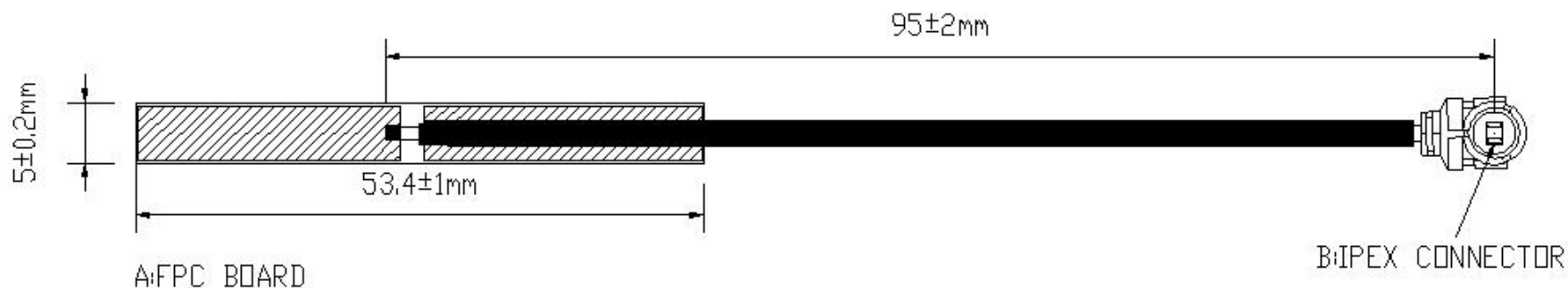
- ◆ Made by copper pipe material, work in 2.4~2.5GHz .
- ◆ Design by dipole antenna theory.
- ◆ High gain, High efficiency, Good port matching.
- ◆ Make wireless equipments better communication.

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)

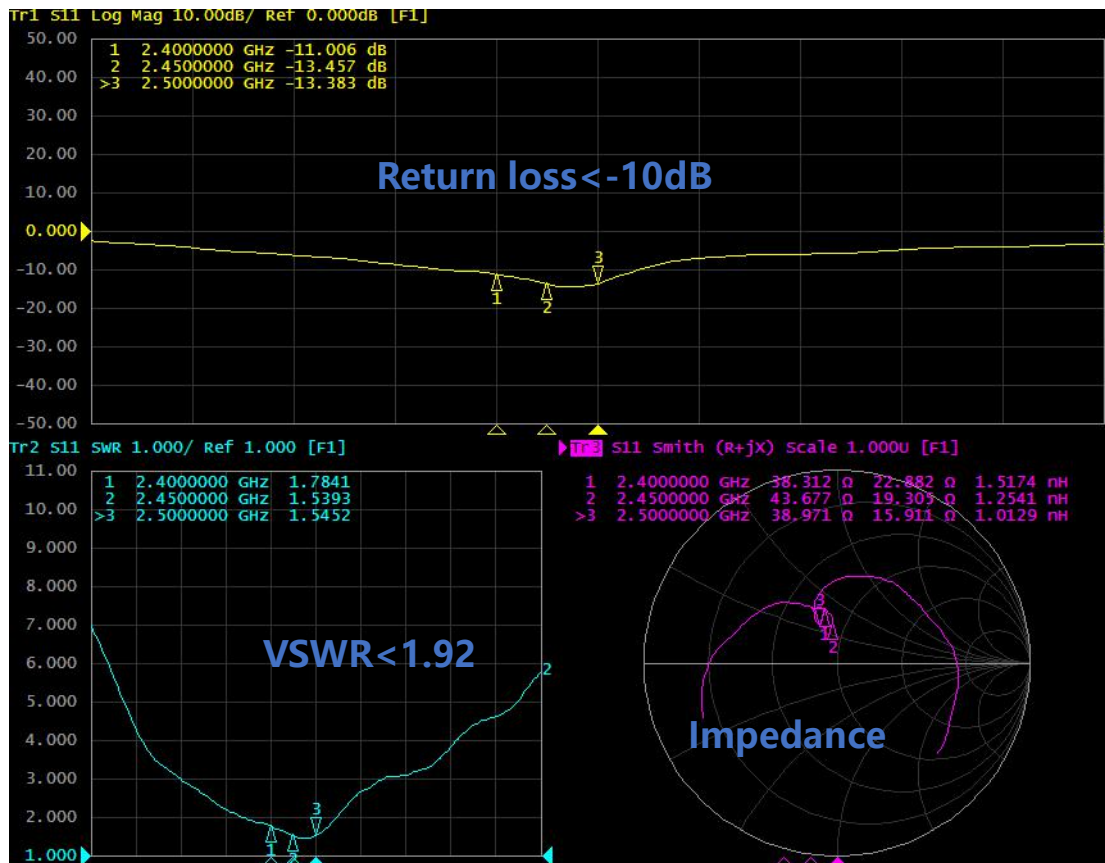


The cable is RF- Φ 1.13 cable with IPEX and length is 95mm

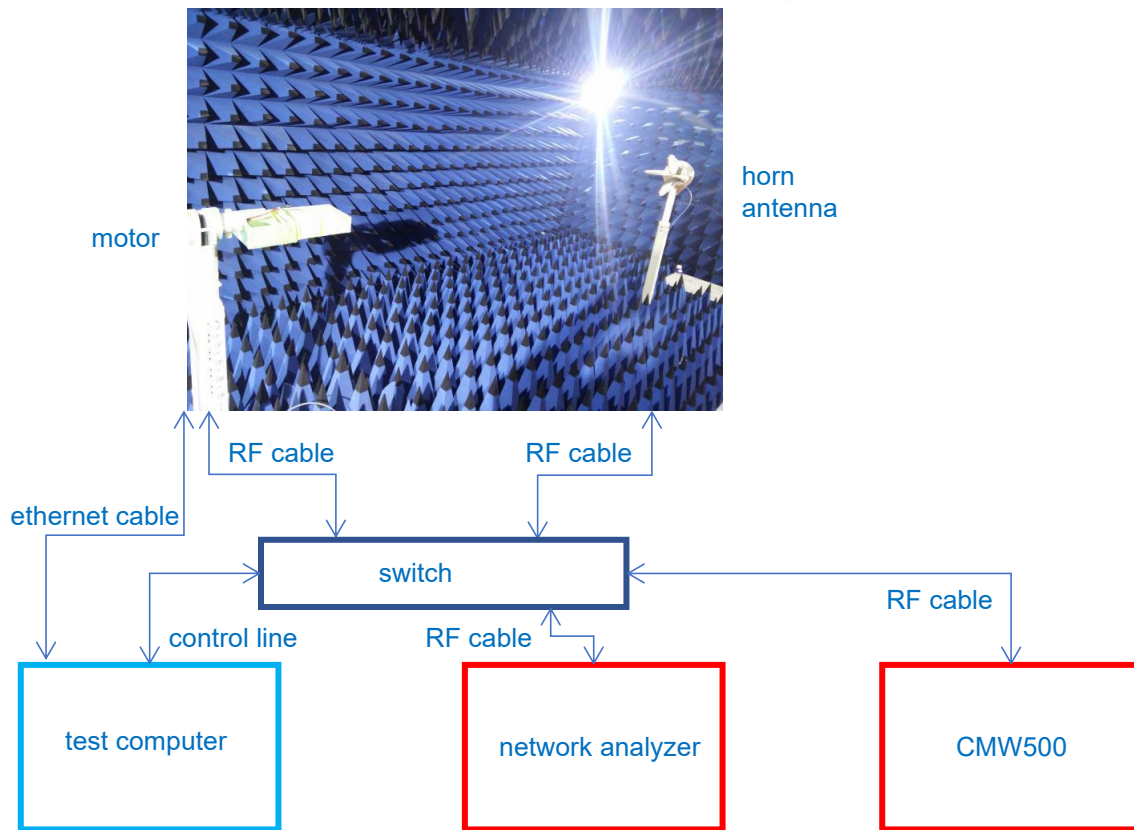
Antenna electrical properties

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



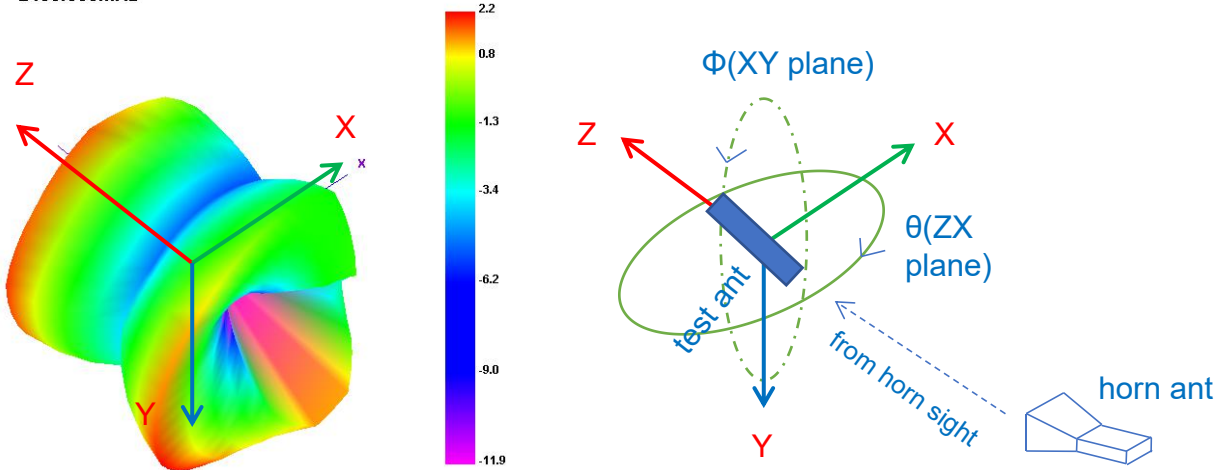
Antenna chamber structure



Antenna total gain and efficiency

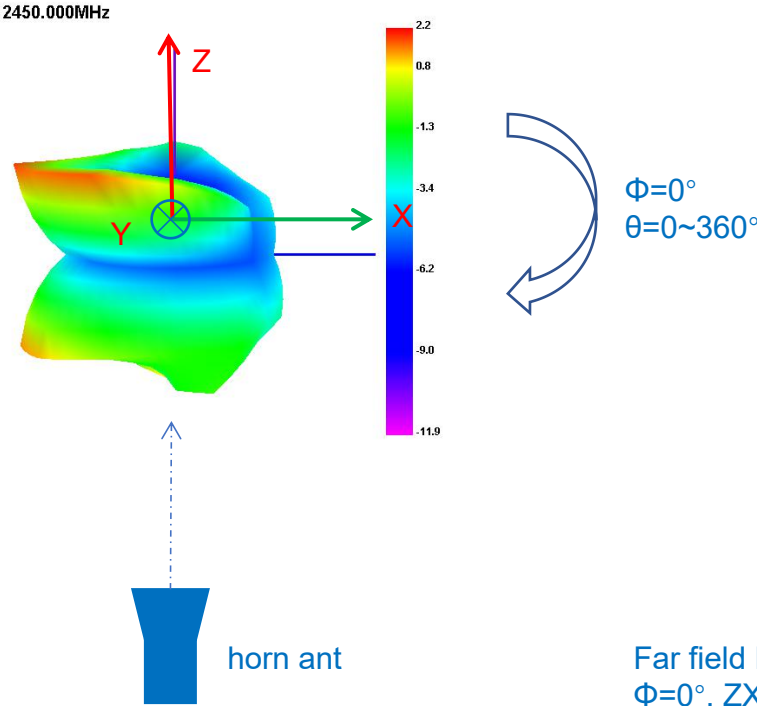
	Freq. (MHz)	Gain (dBi)	Efficiency (%)
FPC_ANT	2400	2.2	66%
	2450	2.5	67%
	2500	2.0	62%

2450.000MHz

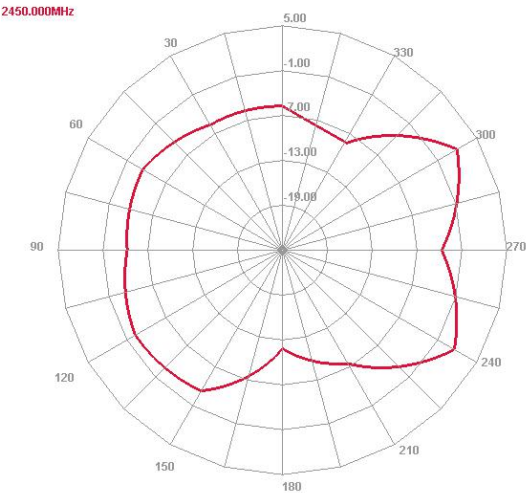


Radiation Pattern E_PLANE

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



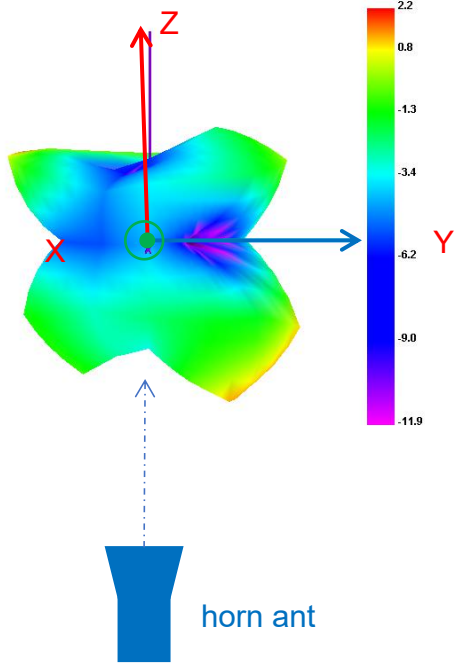
E1 Face



Far field E1_PLANE
 $\Phi=0^\circ$, ZX plane

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

2450.000MHz

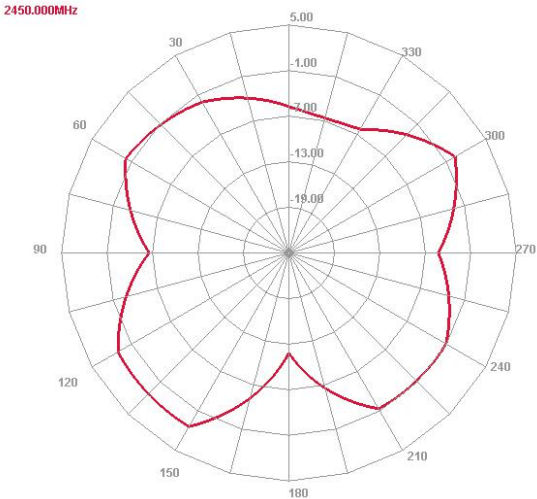


$\Phi=90^\circ$
 $\theta=0\sim360^\circ$

horn ant

Far field E2_PLANE
 $\Phi=90^\circ$, ZY plane

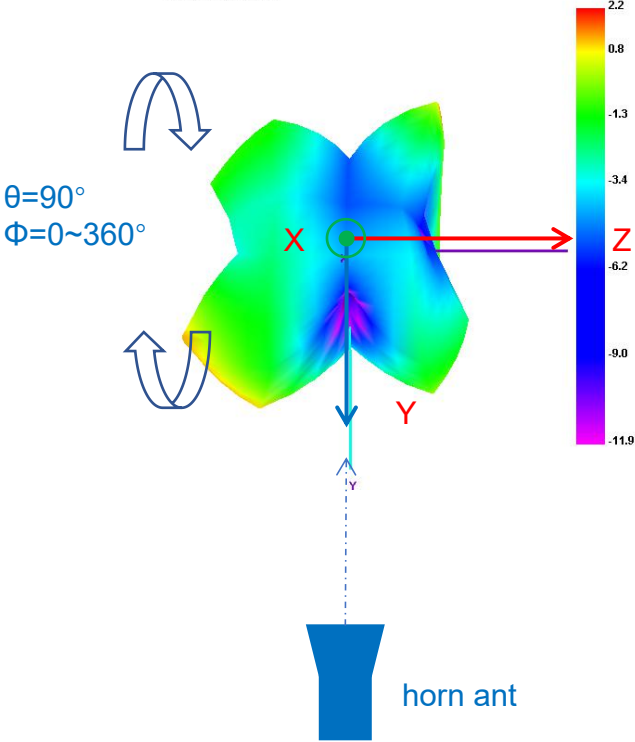
E2 Face



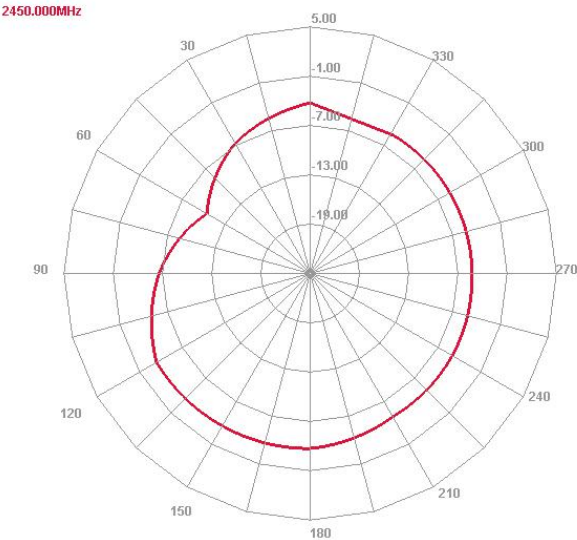
Radiation Pattern H_PLANE

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

2450.000MHz



Horizontal



Far field H_PLANE
 $\theta=90^\circ$, XY plane