

LB-LINK Antenna Specification

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Revision History

Revision	Date	Note
V1.0	2022/03/21	Primary

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Antenna introducing

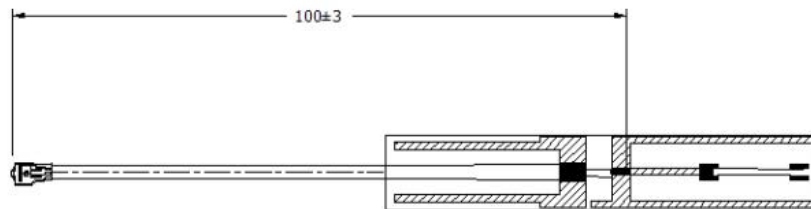
This antenna Made by PCB material, and work in 2.4~2.5GHz and 5.15~5.85GHz especially suit for WLAN system. Design by PIFA antenna theory, supply high gain ,high efficiency ,better port matching make wireless communication easily.

Features

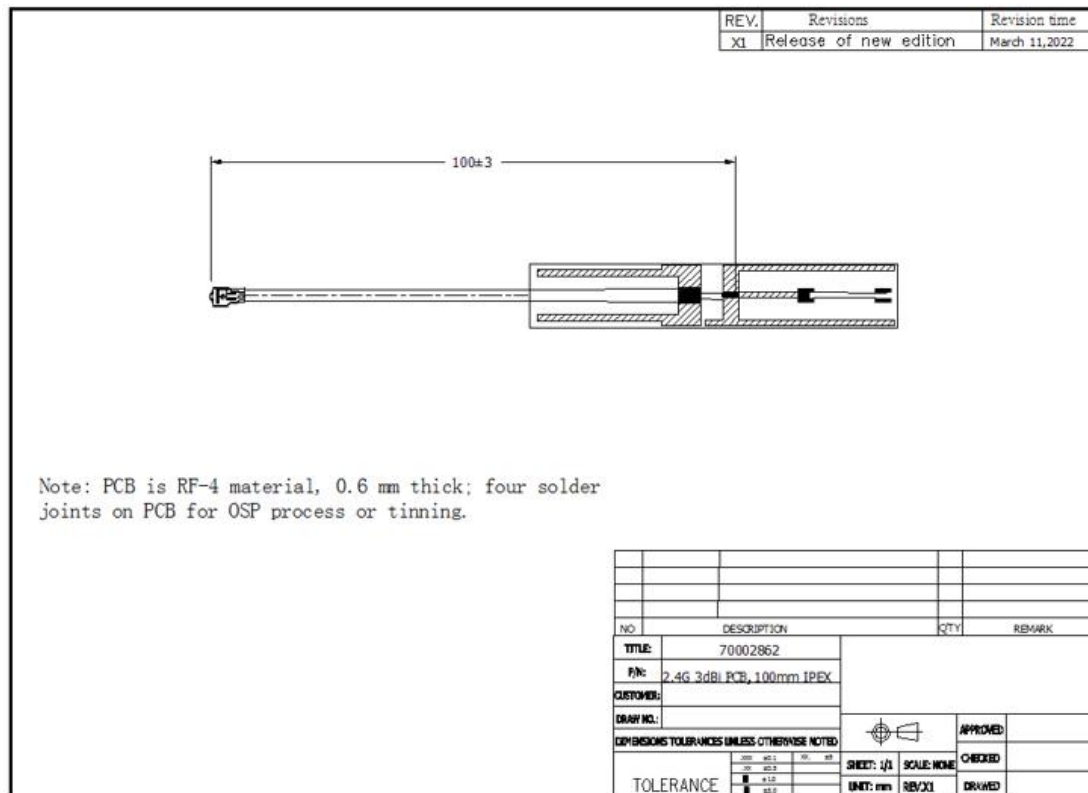
- IEEE802.11 a/b/g/n/ac/ax
- Peak gain 0.87dBI for 2.4G, 2.48dBI for 5G
- High efficiency
- Good port matching

Antenna size

47mm*8mm*0.17mm



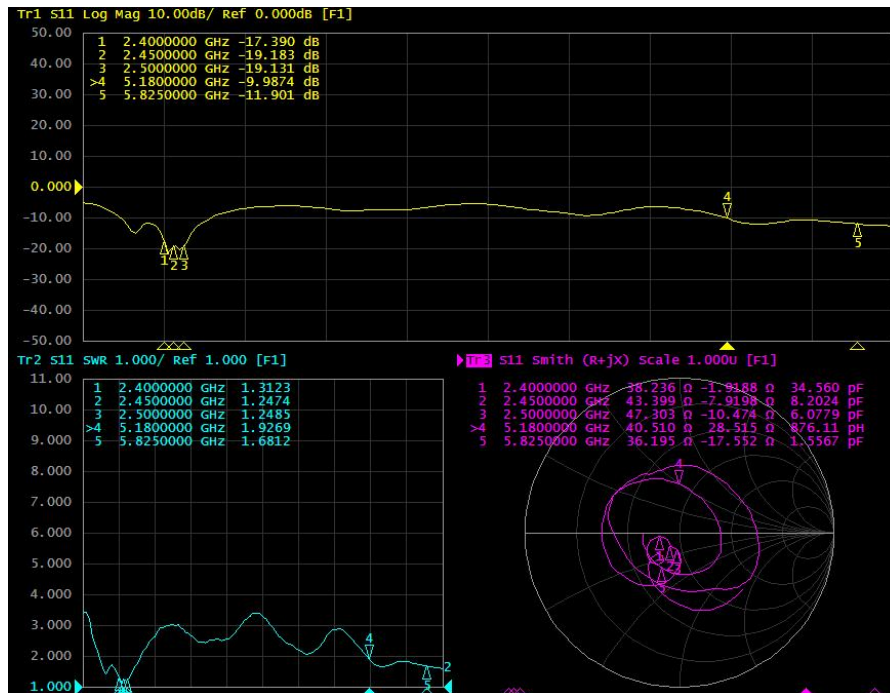
The cable is RF-Φ1.13 cable with IPEX and length is 100mm



Antenna electrical properties

Frequency	2.4~2.5GHz, 5.150-5.850GHz
Impedance	50ohm nominal
V.S.W.R	≤2
Return loss	≤-8dB
Radiation	Omni-directional
Gain(Peak)	2.4G:0.87dBi, 5G:2.48dBi
Polarization	Linear
Admitted Power	2W
Connector	IPEX
Efficiency	50%~70%
Cable	RF Φ 1.13 cable and length is 100mm

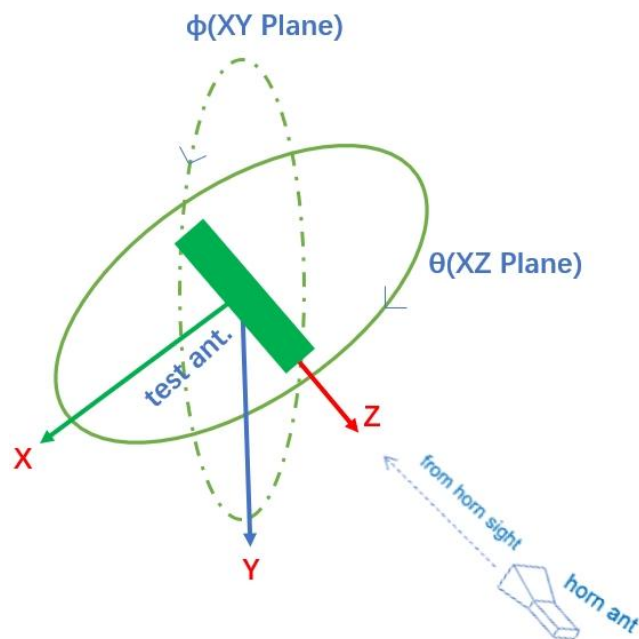
Antenna S-parameter



Return loss: $\leq -8\text{dB}$

VSWR: ≤ 2

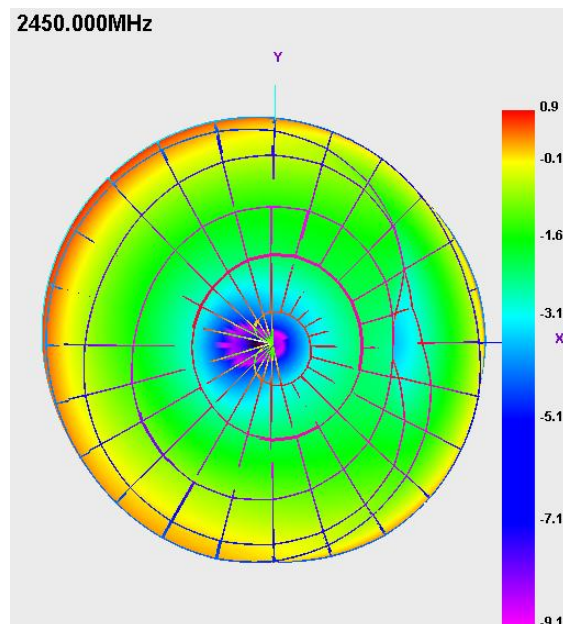
Antenna Radiation parameter



Antenna total gain and efficiency

	Freq. (MHz)	Gain (dBi)	Efficiency (%)
FPC_ANT	2400	0.68	65%
	2450	0.79	68%
	2500	0.87	67%
	5150	0.68	52%
	5470	1.89	55%
	5850	2.48	53%

2.4G Radiation Pattern



5G Radiation Pattern

