

LB-LINK Antenna

Report

Model:WNZ7915

LB-LINK PN:

sales:

support:

Date: 2018/09/11

Revision History

Revision	Date	Note
V1.0	2018/09/11	Primary



Contents

Antenna introducing	P4
Features	P4
Antenna size.....	P4
Antenna electrical properties.....	P5
Antenna return loss.....	P5
Antenna total gain and efficiency.....	P6
Radiation Pattern.....	P7

Antenna introducing

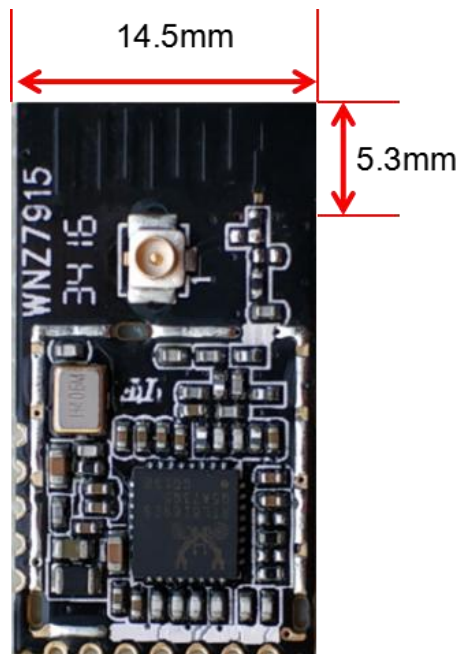
Model WNZ7915 on board pcb antenna work in 2.4~2.5GHz especially suit for WLAN system.Design by dipole antenna theory,supply high gain ,high efficiency ,better port matching make wireless communication easily.

Features

- IEEE802.11 b/g/n
- Peak gain 2dBI for 2G
- High efficiency
- Good port matching

Antenna size

14.5mm*5.3mm

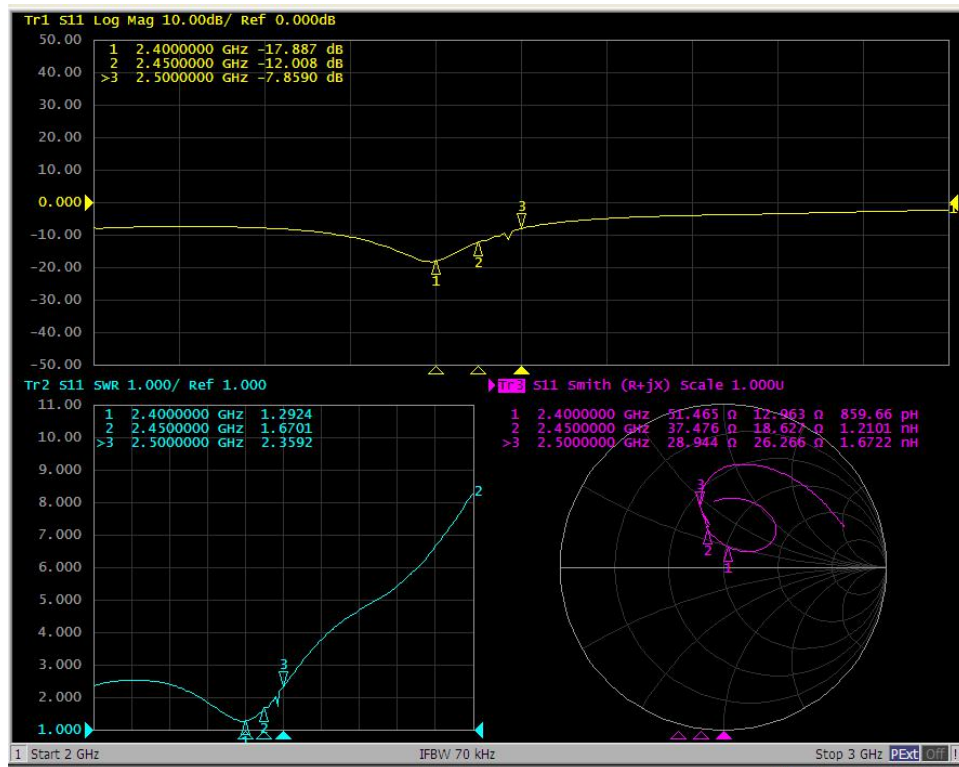


Pcb on board printed antenna size for WNZ7915 module

Antenna electrical properties

Frequency	2.4~2.5GHz
Impedance	50ohm nominal
V.S.W.R	≤ 2.5
Return loss	$\leq -8\text{dB}$
Radiation	Omni-directional
Gain(Peak)	2G:2dBi
Polarization	Linear
Admitted Power	2W
Connector	NI
Efficiency	2G:60%
Cable	NI

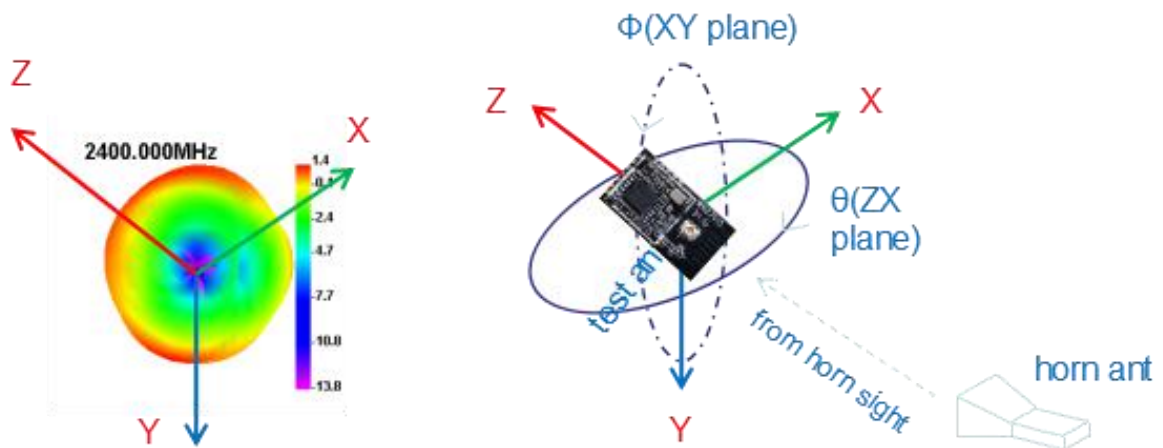
Antenna return loss



2.4~2.5GHz<-8dB

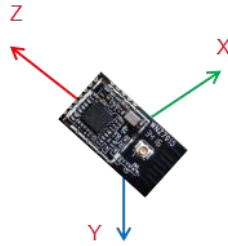
Antenna total gain and efficiency

	Freq. (MHz)	Gain (dBi)	Efficiency (%)
PCB_PRINTED_ANT	2400	1.43	54.12%
	2450	2	61.12%
	2500	1.5	57.56%

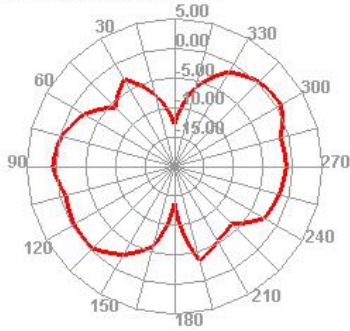


Radiation Pattern

	Freq. (MHz)	Gain (dB)
PCB_PRINTED_ANT	2400	1.43

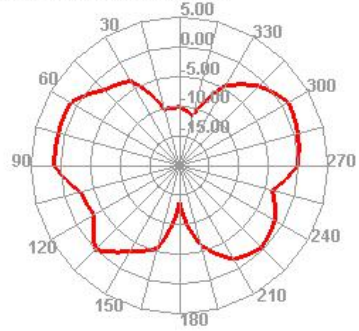


2400.000MHz E1



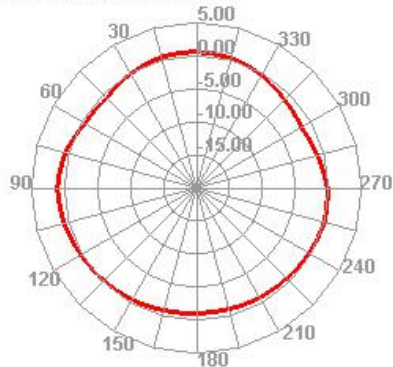
ZX plane

2400.000MHz E2



ZY plane

2400.000MHz H



XY plane

Passive Test For dipole_2G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	54.12	-2.65	1.43	-0.72	41.392	34.48	1.43	-13.82	52.21	52.3
2410	55.2	-2.51	1.47	-0.68	41.851	36.686	1.47	-14.26	52.14	52.28
2420	56	-2.47	1.35	-0.8	39.835	36.788	1.35	-14.48	52.36	52.4
2430	58.46	-2.33	1.41	-0.74	38.271	36.49	1.41	-15.83	52.18	52.18
2440	62	-2.09	1.91	-0.24	41.148	39.971	1.91	-16.35	52.1	52.01
2450	61.12	-2.1	2	-0.15	41.495	40.871	2	-16.44	52.59	52.57
2460	60.89	-2.17	1.68	-0.47	38.257	38.028	1.68	-16.49	52.65	52.52
2470	59.71	-2.2	1.58	-0.57	36.903	36.604	1.58	-16.23	52.76	52.74
2480	59.01	-2.26	1.82	-0.33	38.597	37.842	1.82	-16.08	52.8	52.71
2490	58.79	-2.31	1.74	-0.41	37.83	36.928	1.74	-16.4	53.11	52.88
2500	57.56	-2.39	1.5	-0.65	35.394	35.28	1.5	-16.57	53.23	53.19