

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

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Antenna introducing

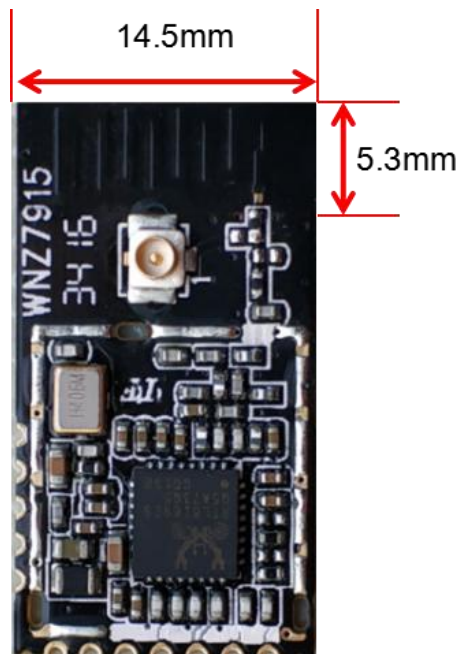
Model WNZ7915 on board pcb antenna work in 2.4~2.5GHz especially suit for WLAN system. Design by dipole antenna theory, supply high gain ,high efficiency ,better port matching make wireless communication easily.

Features

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

Antenna size

14.5mm*5.3mm

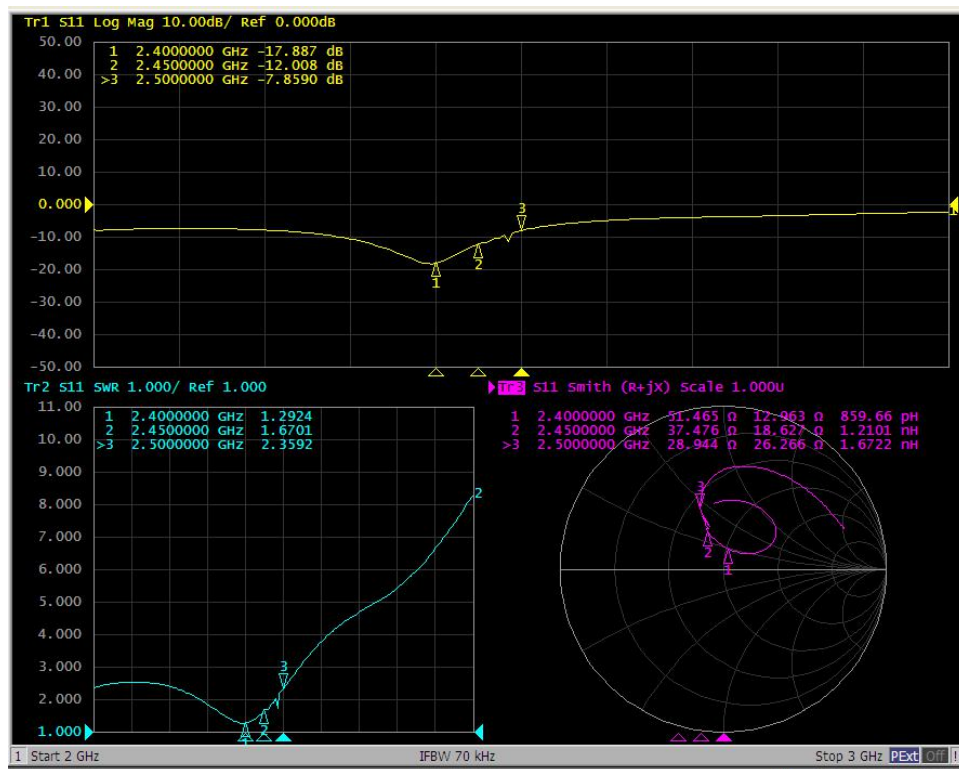


Pcb on board printed antenna size for WNZ7915 module

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

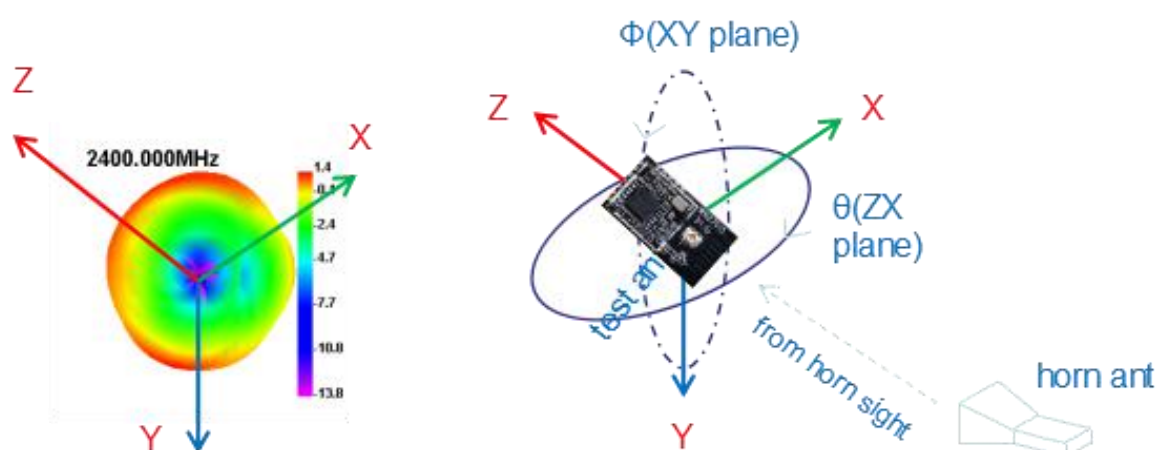
Antenna return loss



2.4~2.5GHz<-8dB

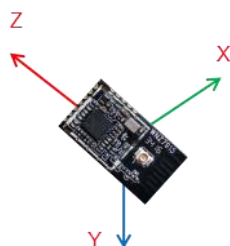
Antenna total gain and efficiency

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

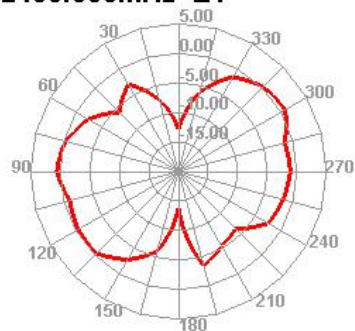


Radiation Pattern

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

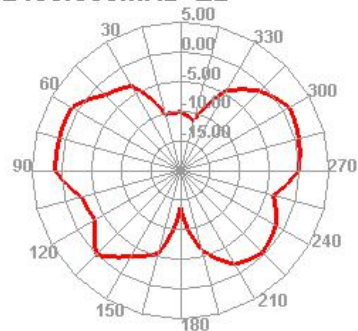


2400.000MHz E1



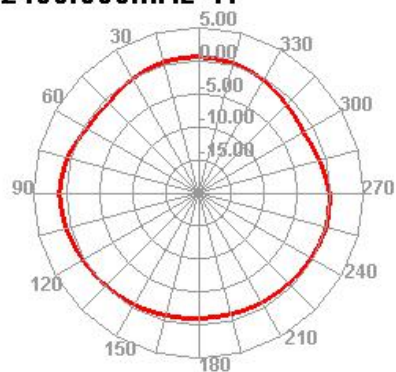
ZX plane

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)	Attenuat Hor	Attenuat 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