



ZIISOR
Antenna

TX915-PCB-9514 Antenna Specification Document

915MHz PCB Built-in Antenna

IPEX- I Interface

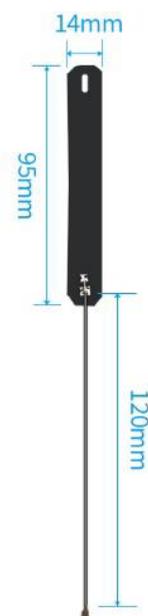
Chengdu to Ziisor Technology Co., Ltd.
Chengdu Ziisor Technology Co.,Ltd

Chapter One: Product Introduction

The TX915-PCB-9514 is a PCB embedded antenna operating in the 915MHz frequency band, with dimensions of 95mm×14mm, featuring an IPEX-1 interface. It is suitable for various terminal devices operating in the 915MHz frequency band (such as mobile phones, wireless network cards, routers), wireless communication modules, etc. The antenna is compact, reliable in performance, designed for embedded installation in modules, and provides stable signal quality.

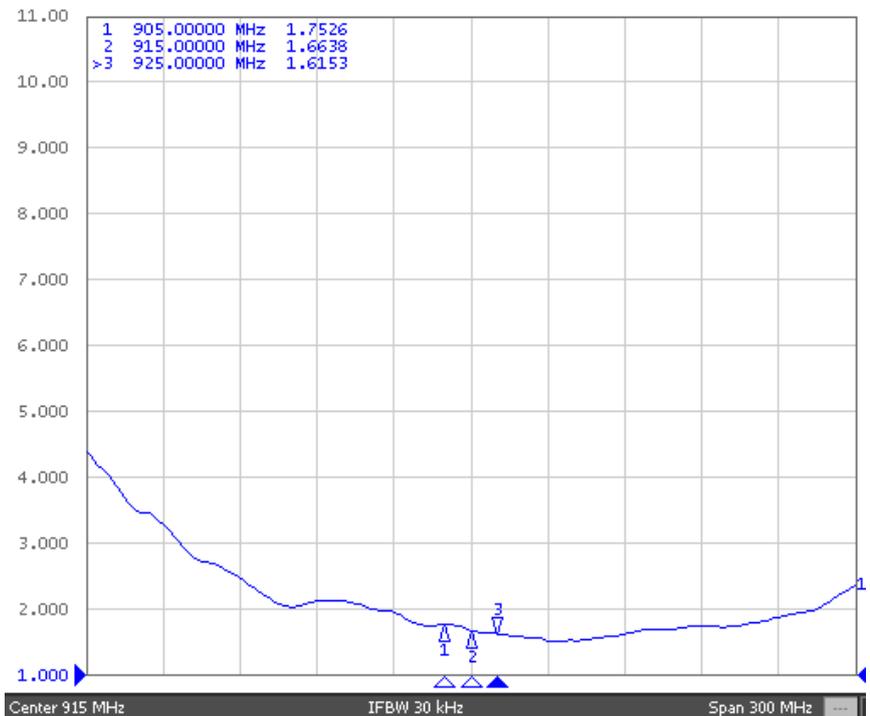
Chapter Two: Specification Parameters

Electrical Parameters	
Frequency Range	915MHz
	860-940MHz
Antenna Gain	3dBi
Voltage Standing Wave Ratio	≤ 2.0
Polarization Direction	Linear Polarization
Radiation Direction	Omnidirectional
Input Impedance	50 Ω
Power Capacity	2W
Other Parameters	
Product Dimensions	95mm×14mm
Overall Weight	3g
Feed Line Material	RF1.13
Feed Line Length	120mm (Customizable Line Length)
Antenna Material	FPC
Interface Type	IPEX-1 Interface
Operating Temperature	-30°C ~ +75°C
Storage Temperature	-30°C ~ +75°C

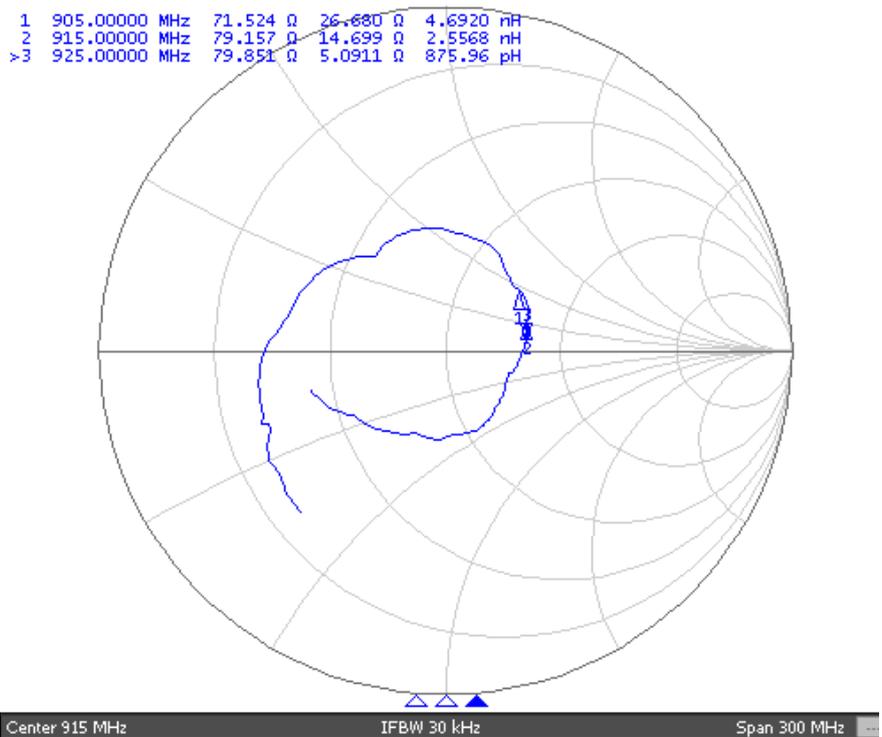


Chapter Three: Antenna Characteristics

Voltage Standing Wave Ratio (VSWR)



Smith Chart

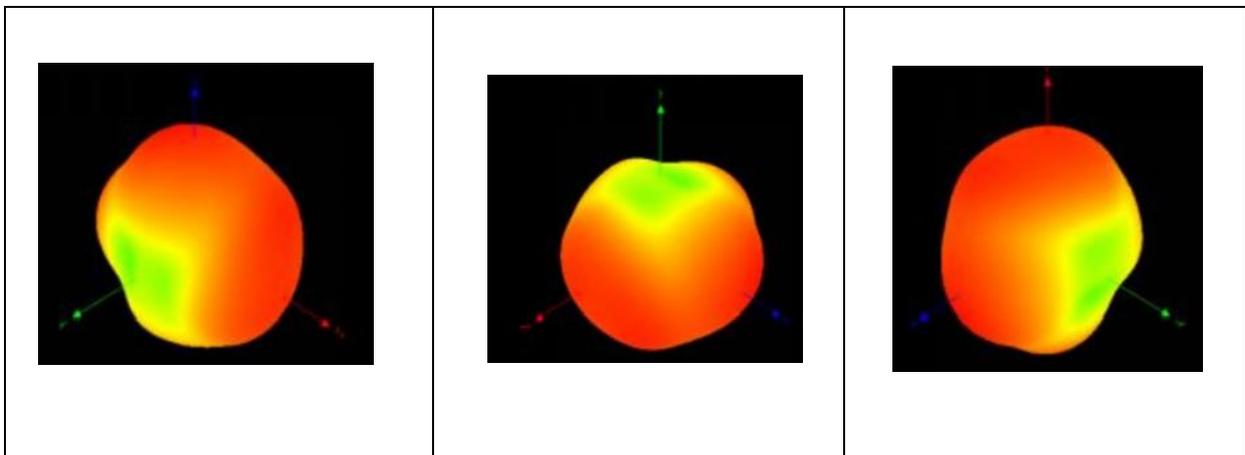


Note: Exposed testing in air, Data for reference only

1. Efficiency/ Gain Test

Freq (MHz)	Effi (%)	Gain (dBi)
860MHz	31.79	2.19
870MHz	33.22	2.26
880MHz	34.85	2.46
890MHz	35.47	2.68
900MHz	36.51	2.83
910MHz	38.92	2.97
920MHz	37.87	2.91
930MHz	39.17	2.79
940MHz	40.00	2.74

2. Radiation Pattern



Chapter Four: Frequently Asked Questions

- The antenna frequency must match the wireless device frequency; otherwise, communication performance will be poor.
- The lower the communication frequency, the longer the wavelength, and the better the diffraction performance.
- When there are direct communication obstacles, the communication distance will be correspondingly attenuated.
- Please pay attention to the antenna radiation direction; incorrect installation direction will result in a shorter transmission distance.
- The ground absorbs radio waves, and testing close to the ground yields poor results; it is recommended to increase the height.
- Seawater has a strong ability to absorb radio waves, so testing near the sea is not effective;
- The presence of metallic objects near the antenna or placing it inside a metal shell can cause severe signal attenuation;
- Poor impedance matching between the antenna and communication equipment can lead to poor communication performance.

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