



TX915-JKS-IPX20 ANT SPEC

915MHz Dipole antenna

IPEX-1 接口 (IPEX1 代)

成都致哲科技有限公司
Chengdu Ziisor Technology Co., Ltd

One Product introduction

TX915-JKS-IPX20 It is a 915MHz band Dipole antenna. It has the advantages of wide frequency band, small VSWR and good consistency. The overall height of the antenna is about 197mm, the length of the feeder is 200mm with IPEX-1 interface (IPEX1 generation), suitable for wireless module, data transmission radio, remote control equipment, etc.

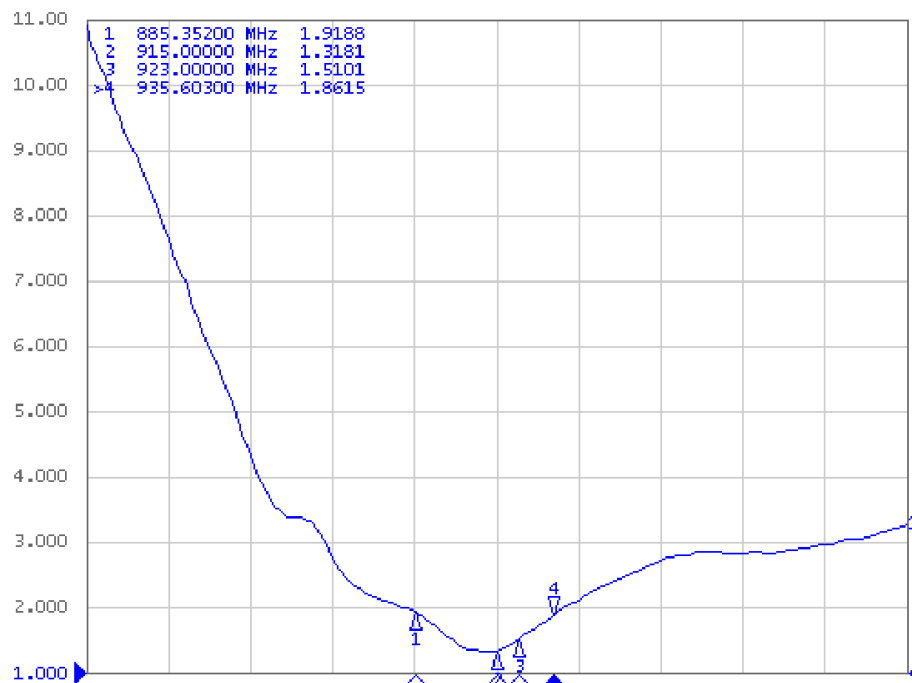
Two Spec.

electric parameter	
center frequency	915MHz
antenna bandwidth	885-935MHz
antenna gain	3dBi
VSWR	≤ 1.5
polarization	垂直极化
radial direction	全向
input impedance	50 Ω
power capacity	10W
other parameters	
Size	197mm
Overall weight	18g
housing material	ABS
Length of feeder	200mm



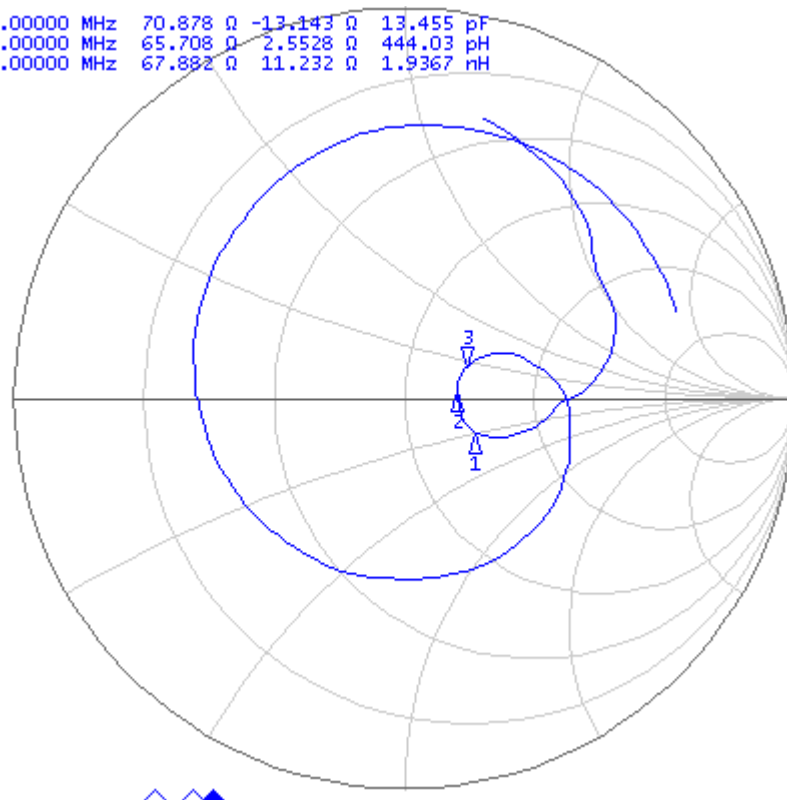
Three Test Parameter

电压驻波比 (VSWR)



史密斯圆图 (Smith chart)

Point	Frequency (MHz)	Resistance (Ω)	Inductive Reactance (Ω)	Capacitive Reactance (pF)
1	900.00000	70.878	-13.143	13.455
2	915.00000	65.708	-2.5528	444.03
3	923.00000	67.882	11.232	1.9367



第四章 常见问题

- 天线频率必须和无线设备频率匹配，否则通信效果不佳；
- 通信频率越低，波长越长，绕射性能越好；
- 当存在直线通信障碍时，通信距离会相应的衰减；
- 请注意天线辐射方向，天线安装方向不正确导致传输距离近；
- 地面吸收无线电波，靠近地面测试效果较差，建议提高高度；
- 海水具有极强的吸收无线电波能力，故海边测试效果不佳；
- 天线附近有金属物体或置于金属壳内，信号衰减会非常严重；
- 天线与通信设备阻抗匹配程度差会导致通信效果差。

The antenna frequency must match the frequency of the wireless device, otherwise the communication effect is not good.

The lower the communication frequency, the longer the wavelength, the better the diffraction performance.

When there are linear communication obstacles, the communication distance will be correspondingly attenuated.

Please pay attention to the antenna radiation direction, the antenna installation direction is not correct, resulting in short transmission distance; The ground absorbs radio waves, and the test effect is poor near the ground, so it is recommended to increase the height. Seawater has a strong ability to absorb radio waves, so the seaside test results are not good. If there are metal objects near the antenna or placed in a metal shell, the signal attenuation will be very serious. Poor impedance matching degree between antenna and communication equipment will lead to poor communication effect.

成都致哲科技有限公司

Chengdu Ziisor Technology Co., Ltd

公司全称 NAME	Chengdu Ziisor Technology Co., Ltd.
公司电话 NUMBER	028-61542639
官方网址 WEBSITE	www.ziisor.com
商务合作 BUSINESS	sales@ziisor.com
技术支持 SUPPORT	support@ziisor.com
公司地址 ADDRESS	2F, B5, Mould Industrial Park, No. 199 West Avenue, Gaoxin West District, Chengdu City, Sichuan Province

