TXWF-XPL-150 Antenna User Manual

2.4G/5.8G/WiFi suction cup antenna

SMA-J interface (SMA female thread inner needle)



Chengdu Ebyte Electronic Technology Co.,Ltd.

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Chapter 1 Product Introduction

TXWF-XPL-150 is a 2.4G/5.8G/WiFi dual-band suction cup antenna. The overall height of the antenna is about 196mm, SMA-J interface (SMA internal threaded inner needle), top induction, with a strong magnetic base, which can be adsorbed on the metal surface and is not easy to fall off; suitable for wireless modules, data transmission radio stations, car platforms, etc. A 2.4G/5.8G/WiFi dual-band wireless device.

Chapter 2 Specifications

Electrical parameters	
bandwidth	2.4-2.5; 5.15-5.85GHz
Gain	4/6dBi
Voltage standing wave ratio	≤1.5
Polarization direction	Vertical polarization
Radiation direction	Omnidirectional
input resistance	50Ω
Power Capacity	50W
Other parameters	
Product Size	196mm
Suction cup diameter	30mm
weight	39g
material	Carbon steel,ABS
Feeder length	1.5M (customizable)
Feeder material	RG174
Interface method	SMA-J (SMA internal thread internal needle)
Operating temperature	-40℃~+85℃
Storage temperature	-40℃~+85℃

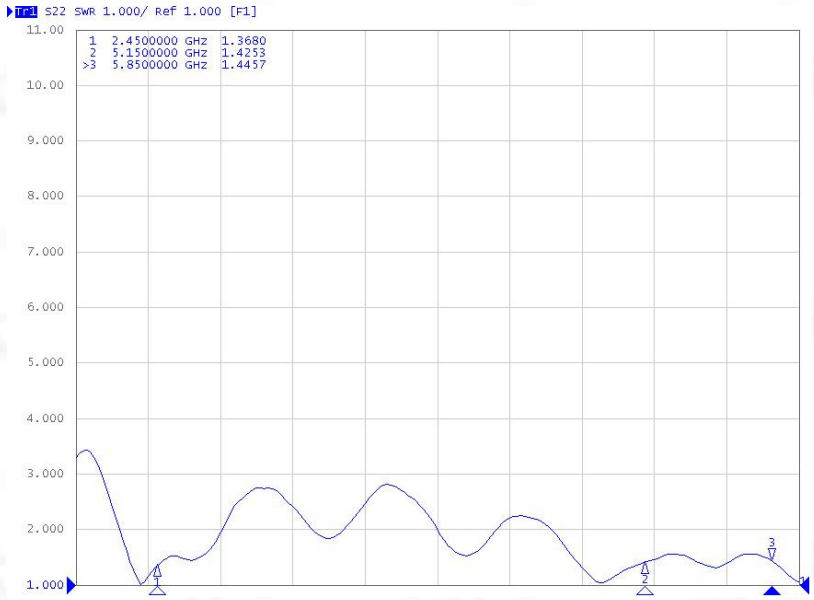




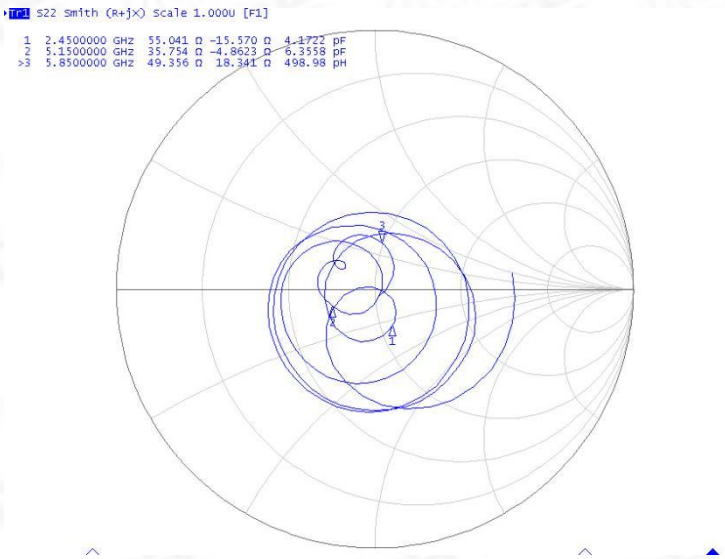
Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Chapter 3 Antenna Characteristics

Voltage standing wave ratio（VSWR）



Smith chart



Copyright ©2012–2020 成都亿佰特电子科技有限公司

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Chapter 4 FAQ

- The antenna frequency must match the frequency of the wireless device, otherwise the communication effect will be poor;
- The lower the communication frequency and the longer the wavelength, the better the diffraction performance;
- When there is a straight line communication obstacle, the communication distance will be attenuated accordingly;
- Please pay attention to the antenna radiation direction, the antenna installation direction is incorrect, resulting in a short transmission distance;
- The ground absorbs radio waves, and the test results near the ground are poor. It is recommended to increase the height;
- Sea water has a strong ability to absorb radio waves, so the seaside test results are not good;
- If there is a metal object near the antenna or placed in a metal shell, the signal attenuation will be very serious;
- Poor impedance matching between antenna and communication equipment will lead to poor communication effect。

About us

Technical support: support@cdebyte.com
Documents and RF Setting download link: www.ebyte.com
Thank you for using Ebyte products! Please contact us with any questions or suggestions: info@cdebyte.com
---
Phone: +86 028-61399028
Web: www.ebyte.com
Address: B5 Mould Park, 199# Xiqu Ave, High-tech District, Sichuan, China

Chengdu Ebyte Electronic Technology Co.,Ltd.

Copyright ©2012–2020 成都亿佰特电子科技有限公司

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000