



TXWF-XPL-150 Antenna User Manual

2.4G/5.8G/WiFi suction cup antenna

SMA-J interface (SMA female thread inner needle)



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.

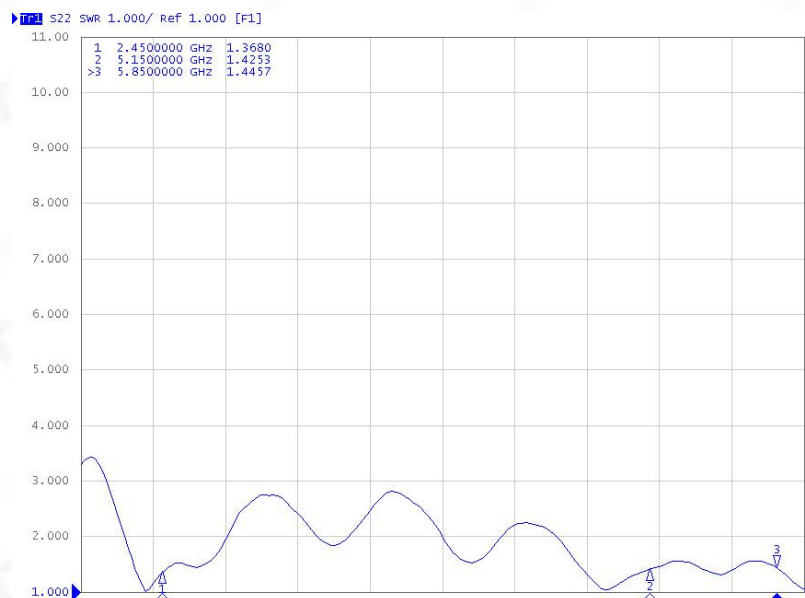
Chapter 2 Specifications

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	50 Ω
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°C~+85°C
Storage temperature	-40°C~+85°C

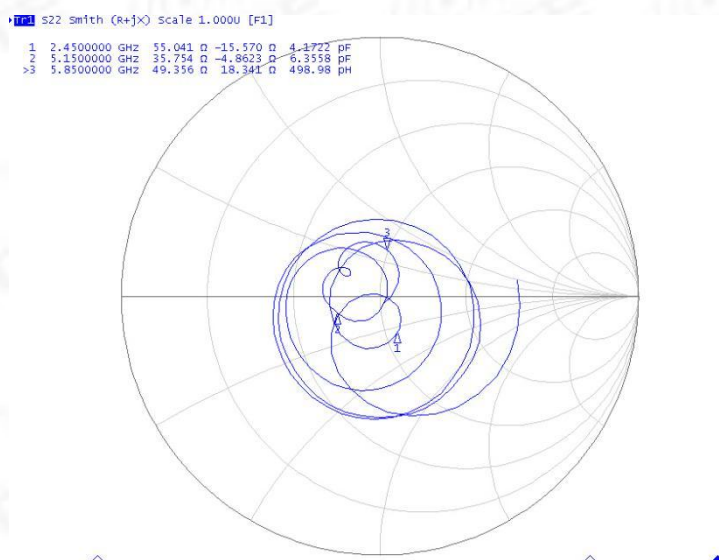


Chapter 3 Antenna Characteristics

Voltage standing wave ratio (VSWR)



Smith chart



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.

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