TXWF-BLG-18 User Manual

2.4/5.8GHz Outdoor Omnidirectional Fiberglass N-J Connector



Chengdu Ebyte Electronic Technology Co.,Ltd.

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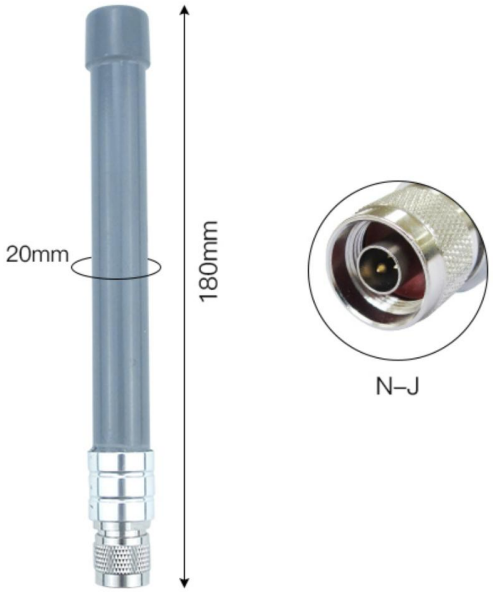
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1 Introduction

TXWF-BLG-18 is a fiberglass positioning antenna of 2.4GHz/5.8GHz frequency band. Its length is 180mm with N-J interface. The antenna housing is made of glass fiber material and contains multiple antenna oscillators, which has the advantages of high gain and long communication distance. It is water-proof, sun-proof, wind-proof and hermetic, which can be widely used in the wild and bad environment. Because of the high stability and reliability of FRP antenna, it can also be used in wireless terminal equipment, base station, gateway, wireless module, AP, router, wireless modem and other places with high requirements.

2 Parameters

Electrical parameters	
Center frequency	2.4/5.8GHz
Antenna bandwidth	2.4-2.5/5.15-5.85GHz
Antenna gain	4/6dBi
Voltage standing wave ratio	≤1.5
Polarization direction	Vertical polarization
Radiation direction	Omnidirectional
Input resistance	50Ω
Power capacity	100W
Other parameters	
Product size	180mm
Weight	80g
Antenna Diameter	Φ20mm
Material	Fiberglass
Connector	N-J
Operating temp.	-40℃～+85℃
Storage temp.	-40℃～+85℃

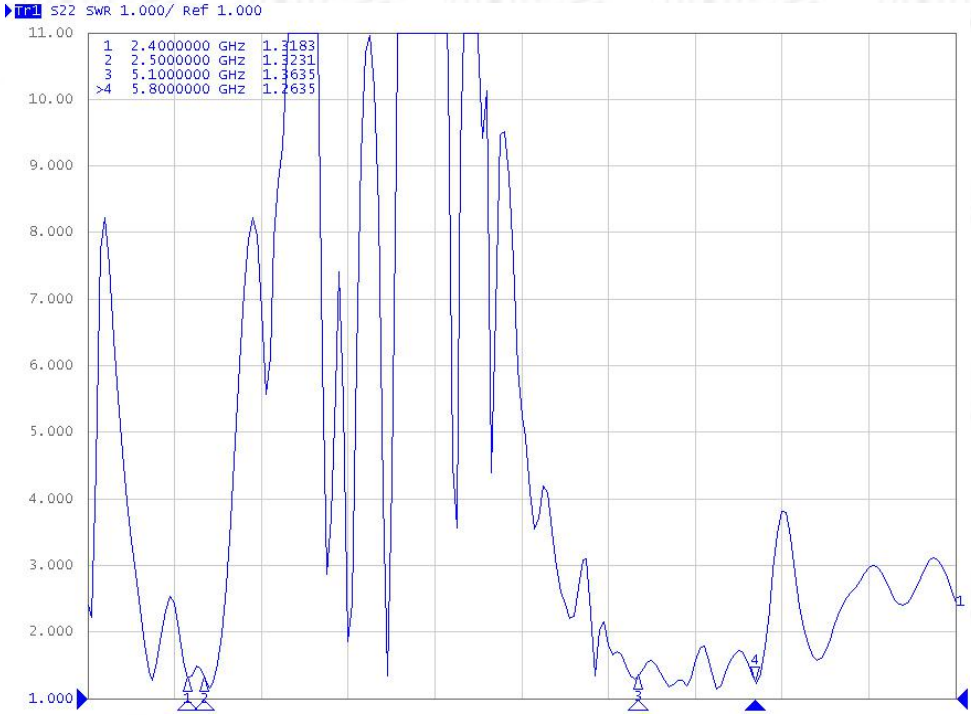


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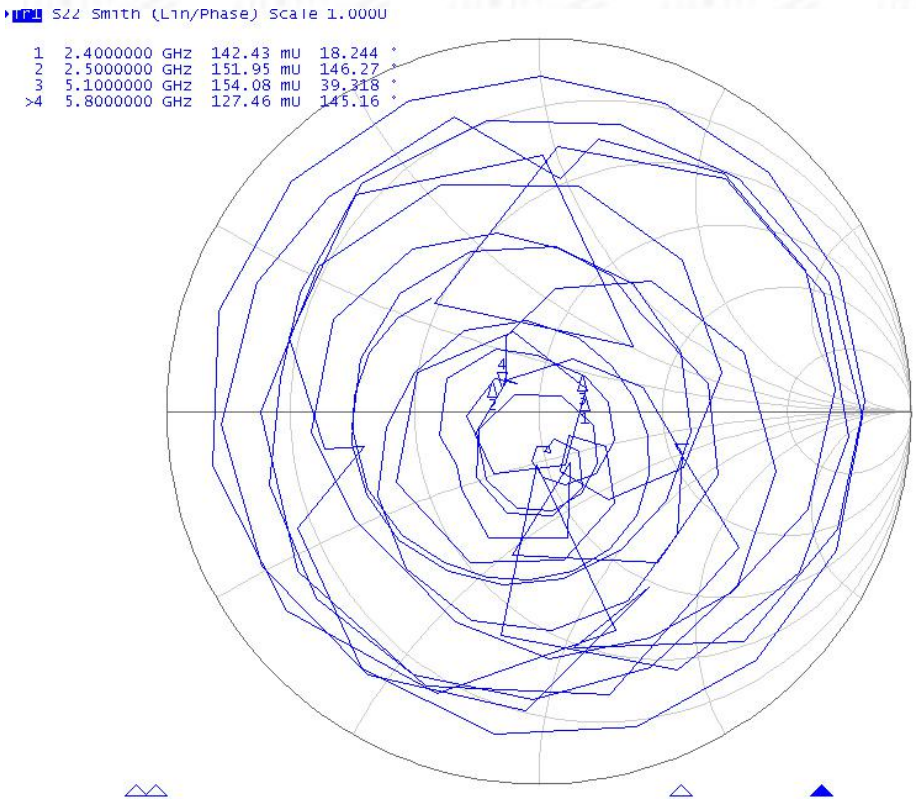
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3 Antenna features

VSWR



Smith Chart



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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 incorrect installation direction of the antenna leads to a short transmission distance;
- The ground absorbs radio waves, and the test result near the ground is 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;
- The poor impedance matching between the antenna and the communication device will lead to poor communication effects.

About us

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