TX4G-BLG-120 Antenna Specifications

4G/LTE FRP Antenna

N-J interface (N male)



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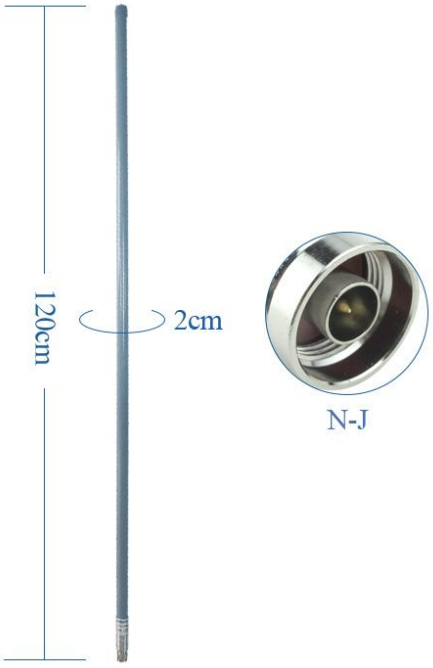
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Chapter 1 Product Introduction

TX4G-BLG-120 is a 4G/LTE frequency band fiberglass antenna, the antenna length is about 1200mm, N-J interface (N male). The antenna shell is made of glass fiber material and contains multiple sets of antenna oscillators, which have the advantages of high gain and long communication distance. The antenna is waterproof, sun-proof, windproof, and highly airtight, and can be widely used in places with harsh environments such as the wild. Due to the high stability and reliability of the fiberglass antenna, it can also be used in places with high requirements such as wireless terminal equipment, base stations, gateways, wireless modules, APs, routers, and wireless data transmission stations.

Chapter 2 Specifications

Electrical parameters	
Center frequency	4G
Frequency Range	690-960MHz/1710-2700MHz
Horizontal Lobe Width	360°
Vertical Lobe Width	50°（±3°）
Antenna Gain	11dBi
VSWR	≤2.0
Polarization direction	vertical polarization
Radiation direction	Omnidirectional
Input resistance	50Ω
Power Capacity	50W
Other parameters	
Antenna size	1200mm
Net weight	425(±10g)
Overall weight (including packaging)	645(±10g)
Antenna diameter	Φ20mm
Antenna material	FRP
Interface	N-J (N male)
Operating temperature	-40℃～+85℃
Storage temperature	-40℃～+85℃



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Chapter 3 Antenna Characteristics

1. High transmitting efficiency and high receiving sensitivity



致哲玻璃钢天线与相同尺寸的吸盘天线相比，
发射效率要高出20%，最高可达90%的发射效率。



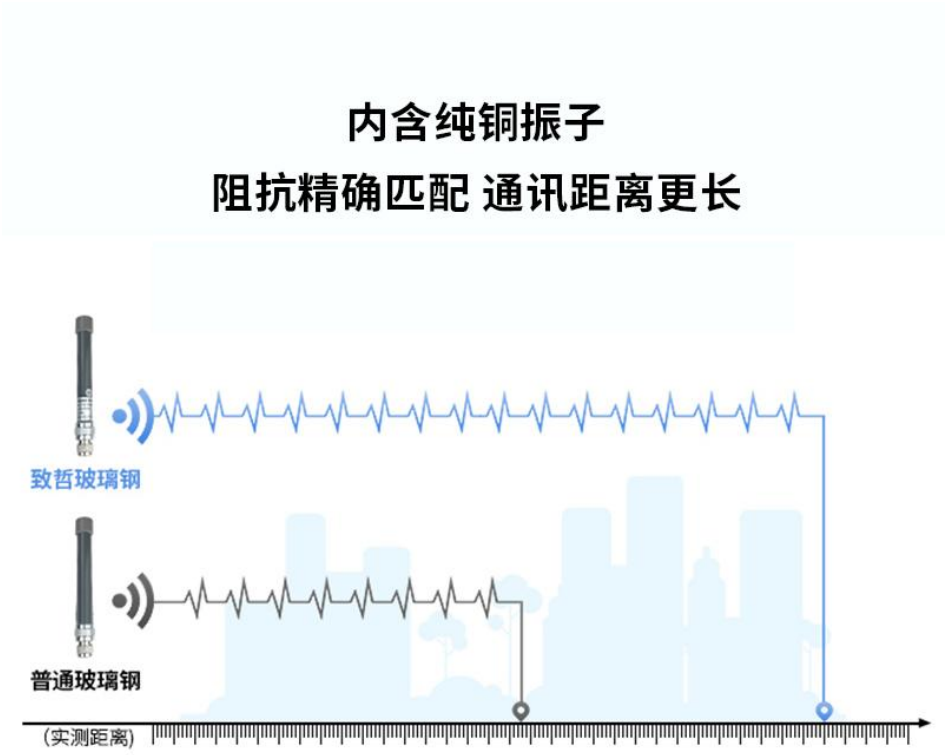
致哲玻璃钢天线与相同尺寸的吸盘天线相比，
接收灵敏度要高出10dB，使用起来效果更加出色。

注：本数据由致哲实验室测试获得，可能存在小范围误差。

2. Contains pure copper vibrator, long communication distance

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3. High protection level

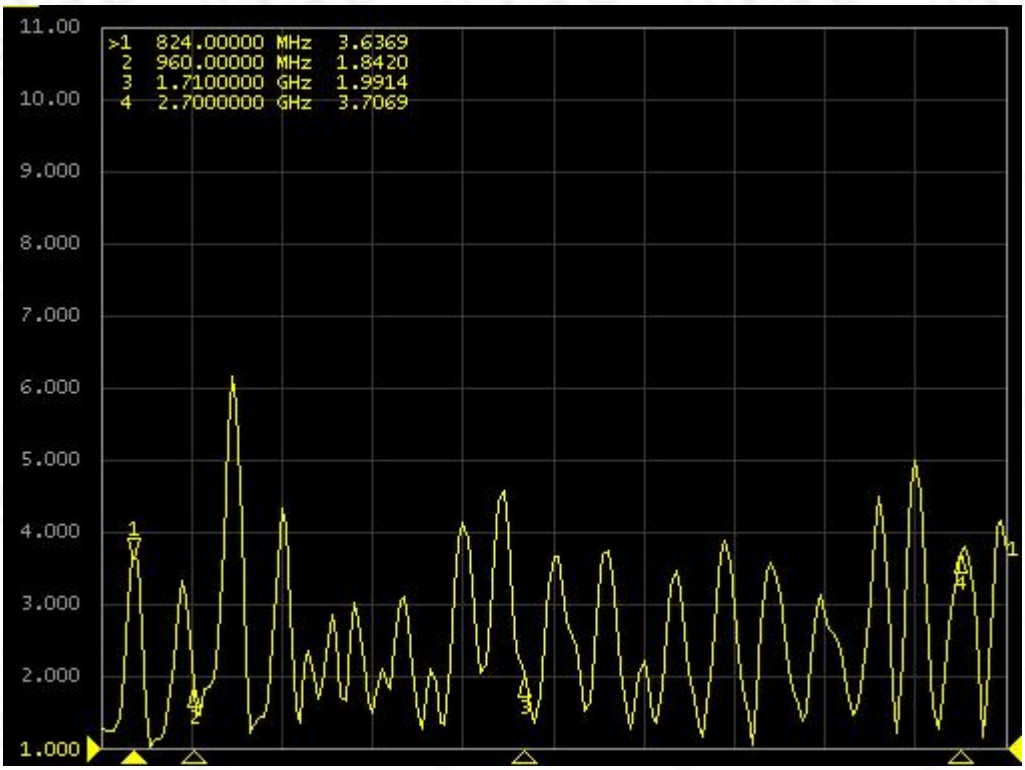


Chapter 4 Test Parameters

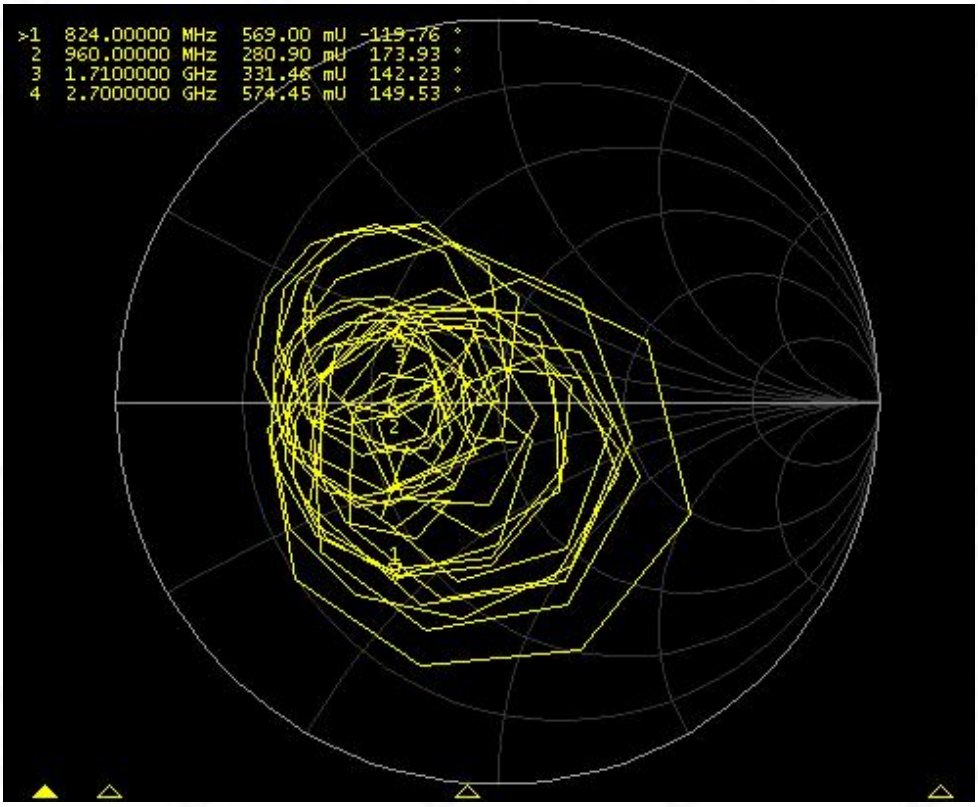
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Voltage Standing Wave Ratio (VSWR)



Smith chart



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Chapter 5 Frequently Asked Questions

- The frequency of the antenna 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 radiation direction of the antenna, the incorrect installation direction of the antenna will lead to short transmission distance;
- The ground absorbs radio waves, and the test effect is poor when it is close to the ground. It is recommended to increase the height;
- Seawater has a strong ability to absorb radio waves, so the seaside test effect is not good;
- If there is a metal object near the antenna or it is placed in a metal case, the signal attenuation will be very serious;
- Poor impedance matching between the antenna and the communication equipment will lead to poor communication effect.

ABOUT US

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