TXGB-AZ-300 Product Data Sheet

GPS Beidou Positioning Antenna

SMA Male Connector



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I. Product Introduction

TXGB-AZ-300 is a GPS beidou positioning antenna. Dimension of the antenna is 50*38*16.7mm. With a SMA male connector (SMA inner screw thread and inner needle), it can be applied to wireless equipment with frequency of GPS in Automobile Sales Service shop, bus station announcements, taxi companies and individuals, DVD navigation, car maintenance and so on.

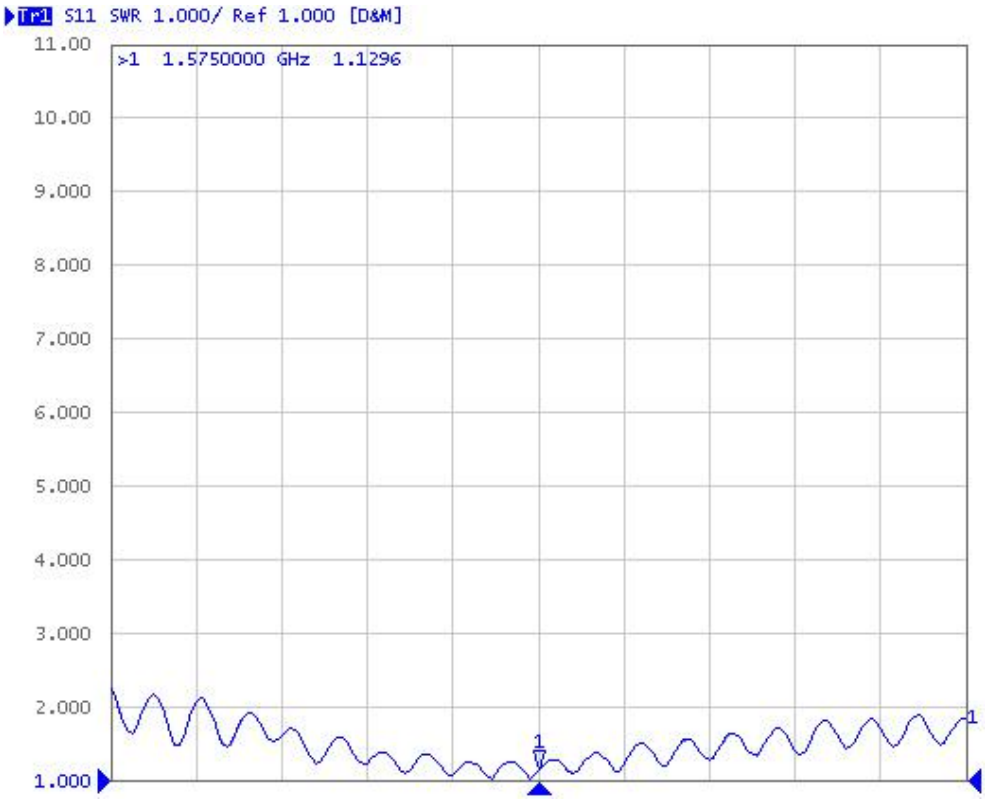
II. Specification and Parameters

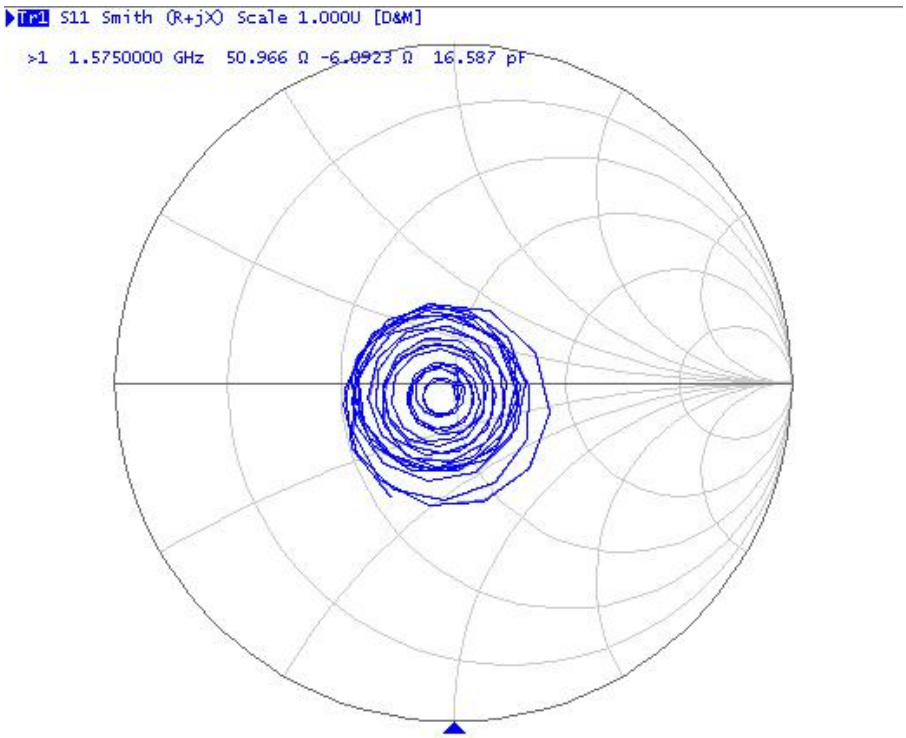
Physical Parameters	
Frequency	1575.042±1.023MHz
	1561.098±2.046MHz
Bandwidth	GPS-L1＞10MHz
	BD-B1＞10MHz
Antenna Gain	4dBic
SWR	≤1.5
Polarization	RHCP
Radiation Direction	Directional
Input Impedance	50Ω
Power Capacity	20W
LNA Characters (Low Noise Amplifier)	
Gain	28±2dB
Noise Factor	<1.5dB
Passband Ripple	±1.0dB
Rejection	F0±100MHz:35dBc min
Direct Voltage	3-5V
Direct Current	≤15mA(DC3.3V)
Output VSWR	2.0 MAX
Other Parameters	
Dimension	50*38*16.7mm
Total Weight	61g
Coat Color	Black
Feeder Length	3m
Feeder Material	RG174
Connector	SMA Male (SMA inner screw thread and inner needle)
Working Temperature	-40℃～+85℃
Storage Temperature	-40℃～+85℃



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III. Testing





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IV. FAQ

- Antenna frequency shall be matched with that of the wireless devices, or the communication will be affected;
- Diffraction performance will be better with lower communication frequency and longer wave;
- Communication distance will be shorter if there is any straight-line barrier;
- Please be noted of the antenna radiation direction. Incorrect direction by installation will result in short communication distance;
- As radio wave may be absorbed by the ground, result will be affected if tested close to ground. It is suggested to test at a higher place;
- As radio wave can be highly absorbed by the ocean water, result will be affected if tested close to the sea;
- Signal will be seriously weakened if the antenna is put close to metal or inside metal shell;
- Lower impedance matching of antenna and communication devices will result in bad communication.

About us

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