# TX2400-JZ-3 Antenna Datasheet

## 2.4GHz ultra-short straight glue stick antenna

## SMA-J interface (SMA female threaded needle)



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# Chapter 1 Product Introduction

TX2400-JZ-3 is an ultra-short straight glue stick antenna in the 2.4GHz band. The overall height of the antenna is about 34mm (±0.5mm), with SMA-J interface (SMA internal threaded inner pin), suitable for broadband communication system in the 2.4GHz band, wireless hotspot coverage, mobile terminal equipment, such as routers, APs, radios, network cards, smart TVs, etc.

# Chapter 2 Specification Parameters

| Electrical parameters | |
|---|---|
| Center frequency | 2.4GHz |
| Antenna bandwidth | 2.4-2.5GHz |
| Antenna gain | 2dBi |
| Voltage VSWR | ≤1.5 |
| Polarization direction | Vertical polarization |
| Radiation direction | Omnidirectional |
| Input impedance | 50Ω |
| Power capacity | 10W |
| **Other parameters** | |
| Product size | 34mm（±0.5mm） |
| Overall weight | 3g（±1g） |
| Antenna housing material | TPEE |
| Interface mode | SMA-J (SMA internal threaded needle) |
| Operating temperature | -30℃～+75℃ |
| Storage temperature | -30℃～+75℃ |

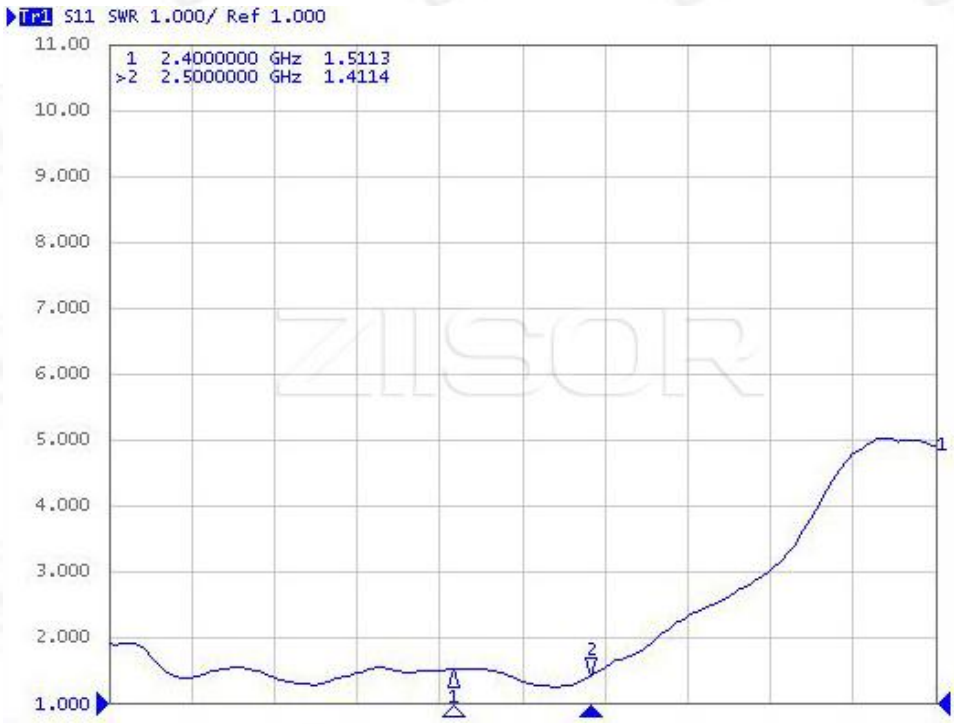



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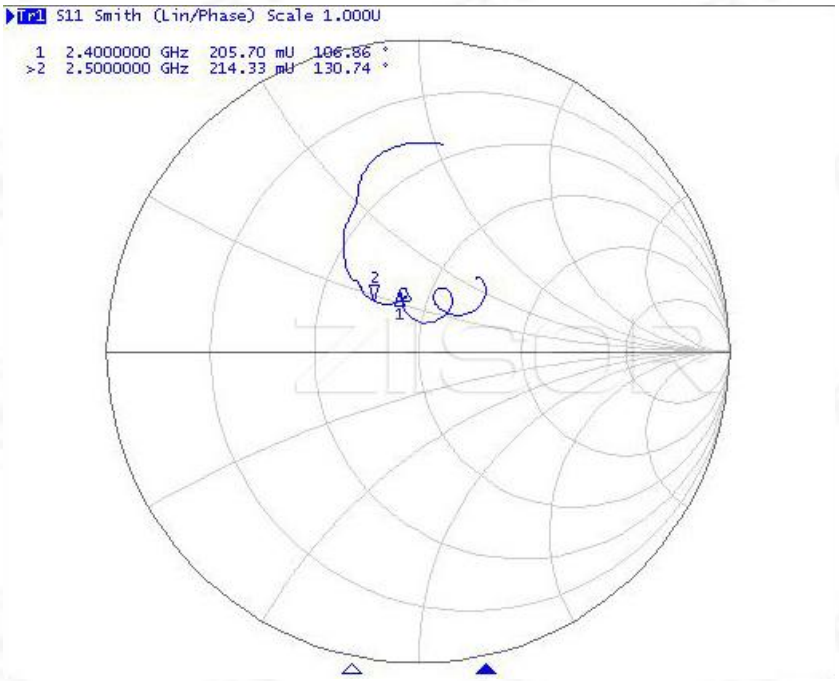

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# Chapter 3 Test Parameters

## Voltage standing wave ratio (VSWR)




## Smith Chart




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# Chapter 4 Frequently Asked Questions

- The antenna frequency must match the frequency of the wireless device, otherwise the communication effect is not good;
- The lower the communication frequency, the longer the wavelength, the better the diffraction performance;
- When there is a linear 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 close transmission distance;
- The ground absorbs radio waves, the test effect near the ground is poor, it is recommended to increase the altitude;
- 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 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

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