TX490-JZLW-15 Antenna User Manual

490Mhz Rubber Plastic Cabinet Antenna

IPEX-1 Interface , 3dBi Gain



Chengdu Ebyte Electronic Technology Co.,Ltd.

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1. Introduction

TX490-JZLW-15 is a rubber plastic cabinet antenna with 490Mhz frequency band, antenna size is about 165mm, IPEX-1 generation interface, suitable for 490Mhz frequency band equipment cabinet, control cabinet, logistics fleet, property security, hotel and catering , Chain companies, construction sites, outdoor self-driving radio enthusiasts, taxi teams and other related equipment.

Electrical parameters	
Center frequency	490Mhz
Antenna bandwidth	470-510MHz
Antenna gain	3dBi
Voltage standing wave ratio	≤1.5
Polarization direction	Vertical polarization
Radiation direction	Omnidirectional
input resistance	50Ω
Power Capacity	20W
Hardware Parameter	
Product Size	165mm
Feeder Cable length	150mm(customized length available)
Overall weight	20g
Antenna shell color	Black
Interface method	IPEX-1
Operating temperature	-40℃～+85℃
Storage temperature	-40℃～+85℃

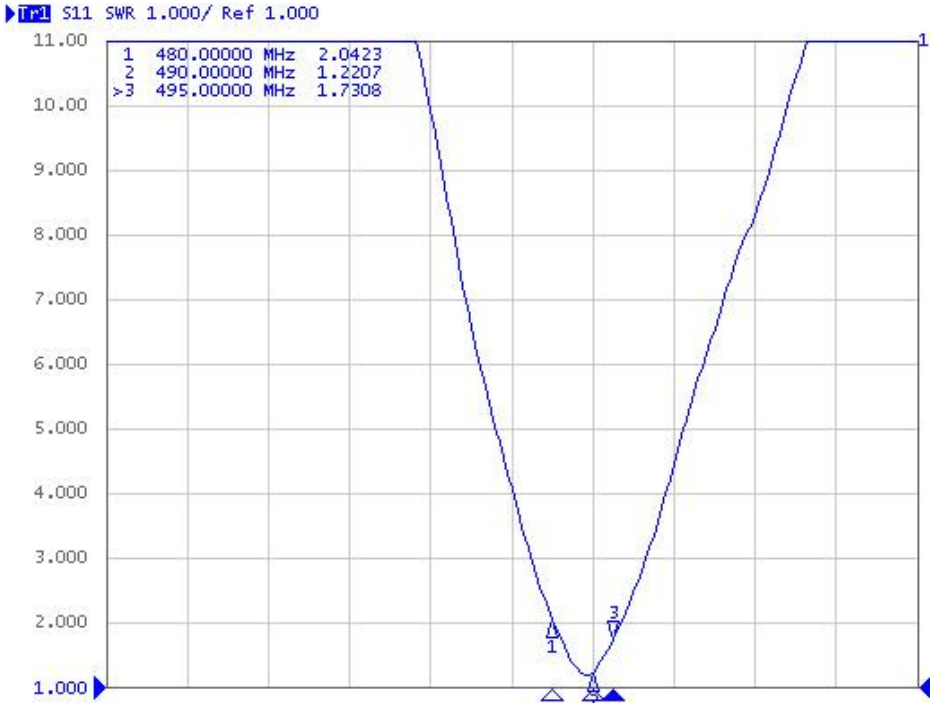


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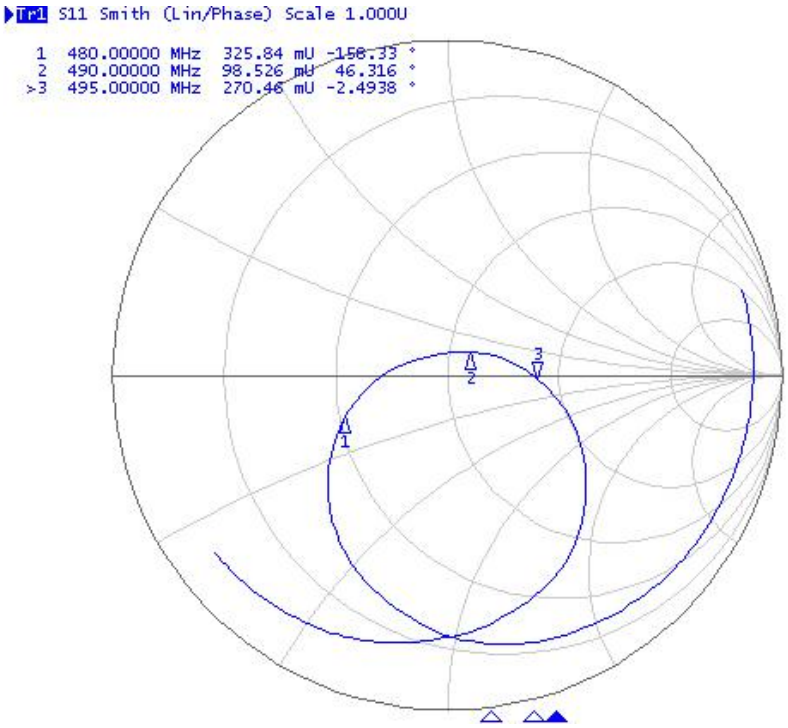
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2. Antenna Features

VSWR Chart



Smith chart



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3. 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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