



TX490-JZLW-15 Antenna User Manual

490Mhz Rubber Plastic Cabinet Antenna

IPEX-1 Interface , 3dBi Gain



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1. Introduction

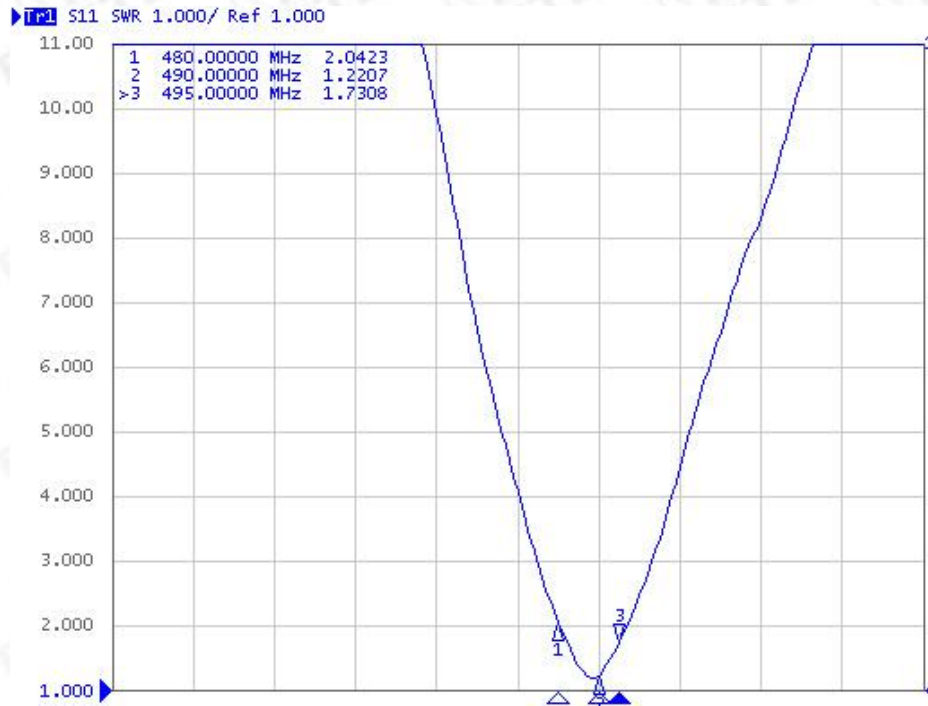
TX490-JZLW-15 is a rubber plastic cabinet antenna with 490Mhz frequency band, antenna size is about 165mm, IPEX-1 generation interface, suitable for 490Mhz frequency band equipment cabinet, control cabinet, logistics fleet, property security, hotel and catering , Chain companies, construction sites, 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	50 Ω
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°C~+85°C
Storage temperature	-40°C~+85°C

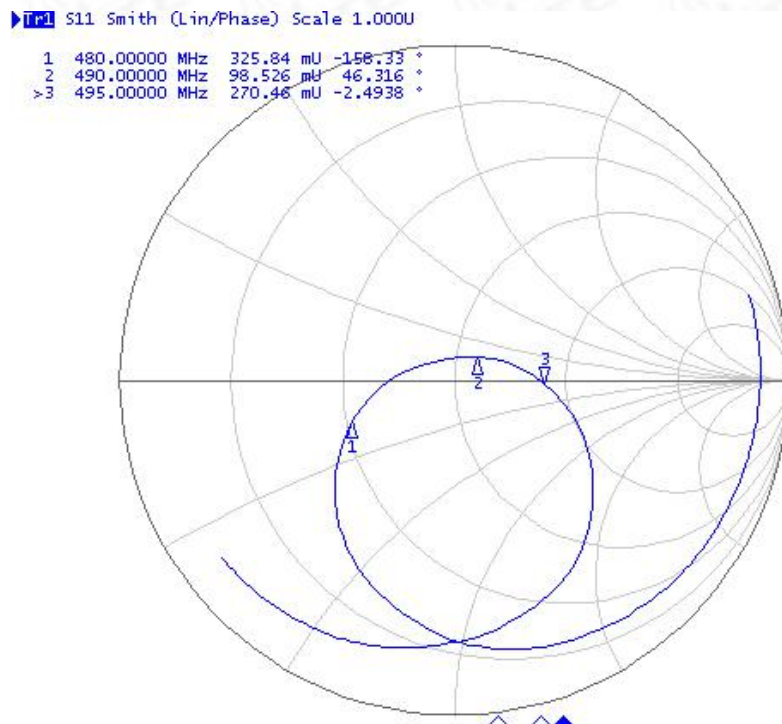


2. Antenna Features

VSWR Chart



Smith chart



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.

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