TX433-JZLW-15 Antenna User Manual

433Mhz Rubber Plastic Cabinet Antenna

IPEX-1 Interface , 3dBi Gain



Chengdu Ebyte Electronic Technology Co.,Ltd.

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Contents

1. Introduction....1
2. Antenna Features....2
VSWR Chart....2
Smith chart....2
3. FAQ....3
About us....3

Disclaimer

EBYTE reserves all rights to this document and the information contained herein. Products, names, logos and designs described herein may in whole or in part be subject to intellectual property rights. Reproduction, use, modification or disclosure to third parties of this document or any part thereof without the express permission of EBYTE is strictly prohibited.

The information contained herein is provided “as is” and EBYTE assumes no liability for the use of the information. No warranty, either express or implied, is given, including but not limited, with respect to the accuracy, correctness, reliability and fitness for a particular purpose of the information. This document may be revised by EBYTE at any time. For most recent documents, Please visit www.ebyte.com.

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

1. Introduction

TX433-JZLW-15 is a rubber plastic cabinet antenna with 433Mhz frequency band, antenna size is about 165mm, IPEX-1 generation interface, suitable for 433Mhz 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	433Mhz
Antenna bandwidth	423~443MHz
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℃

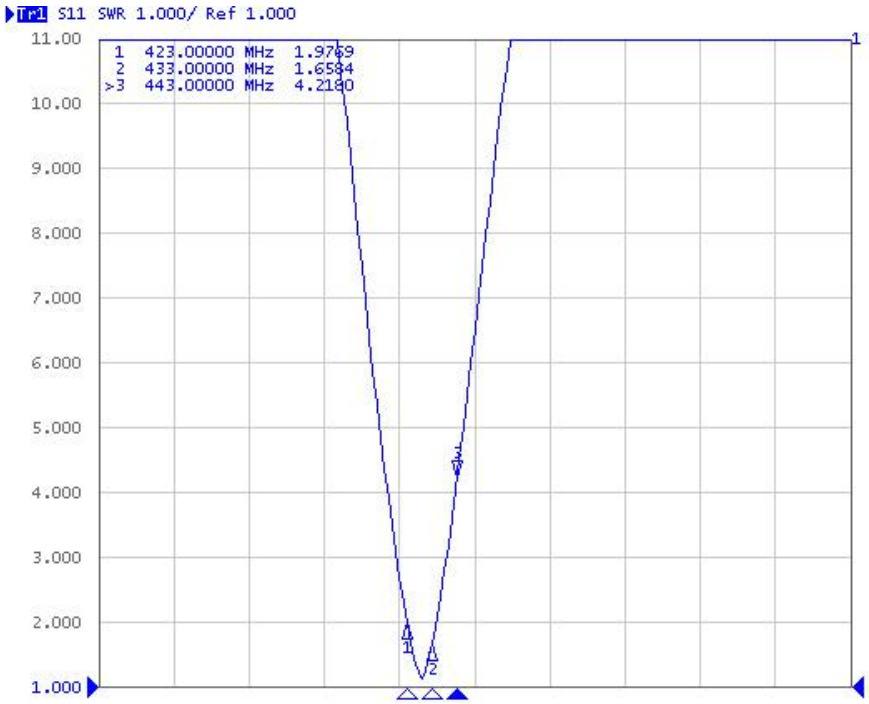


Copyright ©2012–2021, Chengdu Ebyte Electronic Technology Co., Ltd.

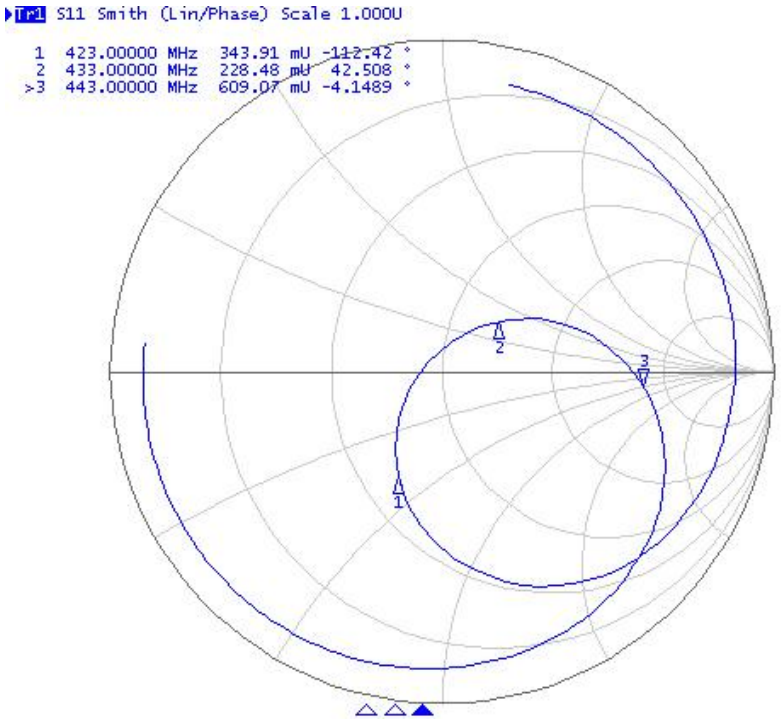
Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

2. Antenna Features

VSWR Chart



Smith chart



Copyright ©2012–2021, Chengdu Ebyte Electronic Technology Co., Ltd.

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

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

Website: www.ebyte.com
Sales: info@cdebyte.com
Support: support@cdebyte.com
Tel: +86-28-61399028 Ext. 812 Fax: +86-28-64146160
Address: Building B5, Mould Industrial Park, 199# Xiqu Ave, West High-tech Zone, Chengdu, 611731, Sichuan, China

Chengdu Ebyte Electronic Technology Co.,Ltd.

Copyright ©2012–2021, Chengdu Ebyte Electronic Technology Co., Ltd.

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000