



TXWF-FPC-3710 Antenna User Manual

2.4G/5.8GHz FPC Antenna

IPEX-1 Interface , 2dBi Gain



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.

1. Introduction

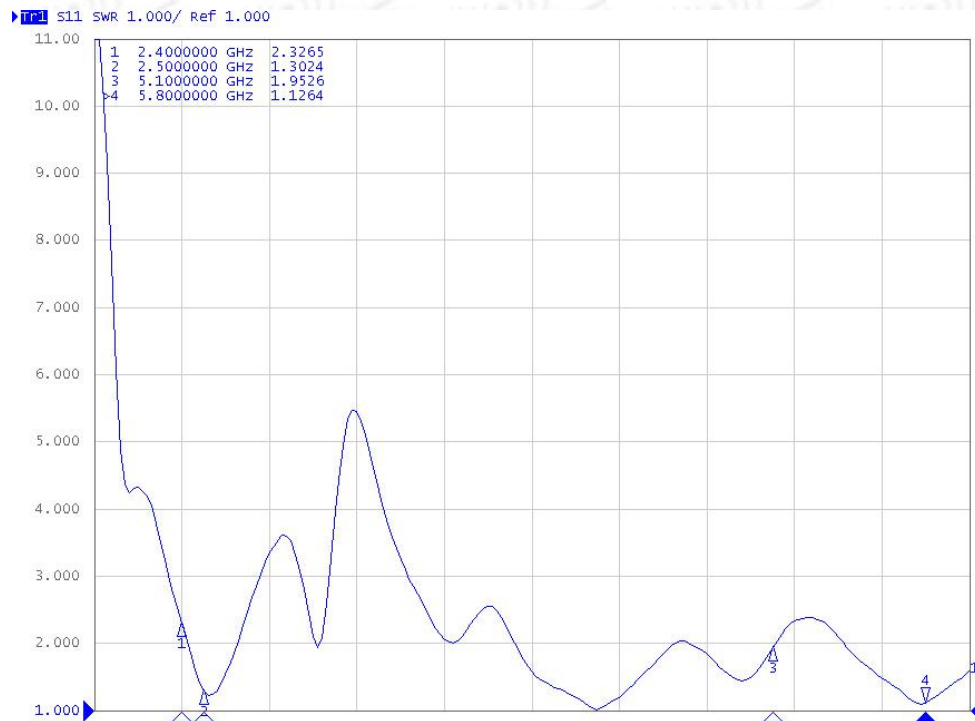
TXWF-FPC-3710 is a 2.4/5.8G dual-band FPC built-in antenna, the antenna size is 37*10mm, the feeder length is 120mm, with IPX 1 generation interface, suitable for various 2.4/5.8GHz wireless modules, network equipment, etc. Band wireless equipment.

Electrical parameters	
Center frequency	2.4/5.8GHz
Antenna bandwidth	2.4-2.5G/5.15-5.8GHz
Antenna gain	2dBi
Voltage standing wave ratio	≤1.5
Polarization direction	Linear polarization
Radiation direction	Omnidirectional
input resistance	50Ω
Power Capacity	2W
Hardware Parameter	
Product Size	37mm*10mm
Overall weight	Overall weight 1g
Antenna material	Antenna material FPC
Feeder length	120mm (can be customized)
Interface method	IPX 1st generation
Operating temperature	-40°C~+85°C
Storage temperature	-40°C~+85°C

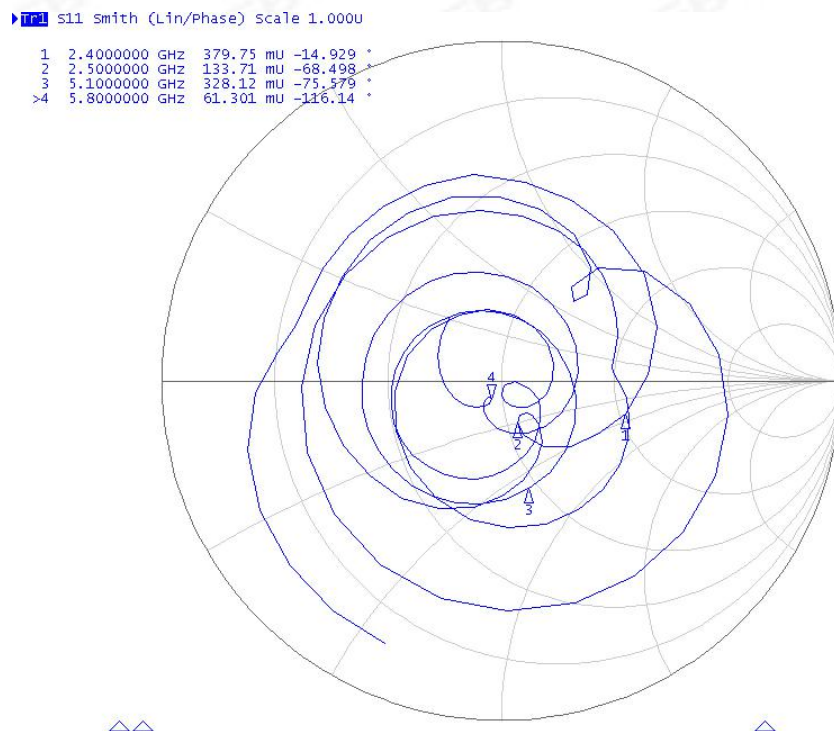


2. Antenna Features

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.

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.