

Antenna Specification

Specifications

Summary

ITEM	SPEC.
Model Name	PCB Antenna
Frequency	433 MHz
MAX. GAIN	3 dBi
Polarization	Horizontal
Azimuth Beam Pattern	Omni-directional
Impedance	50 Ω

Test Date	2023-08-10
Test Instrument	vector network analyzer - R&S ZVB20
Manufacturer	Zhuhai Jieli Technology Co., LTD
Address	333 Kexing Road, Xiangzhou District, Zhuhai

Technical parameters of electrical apparatus

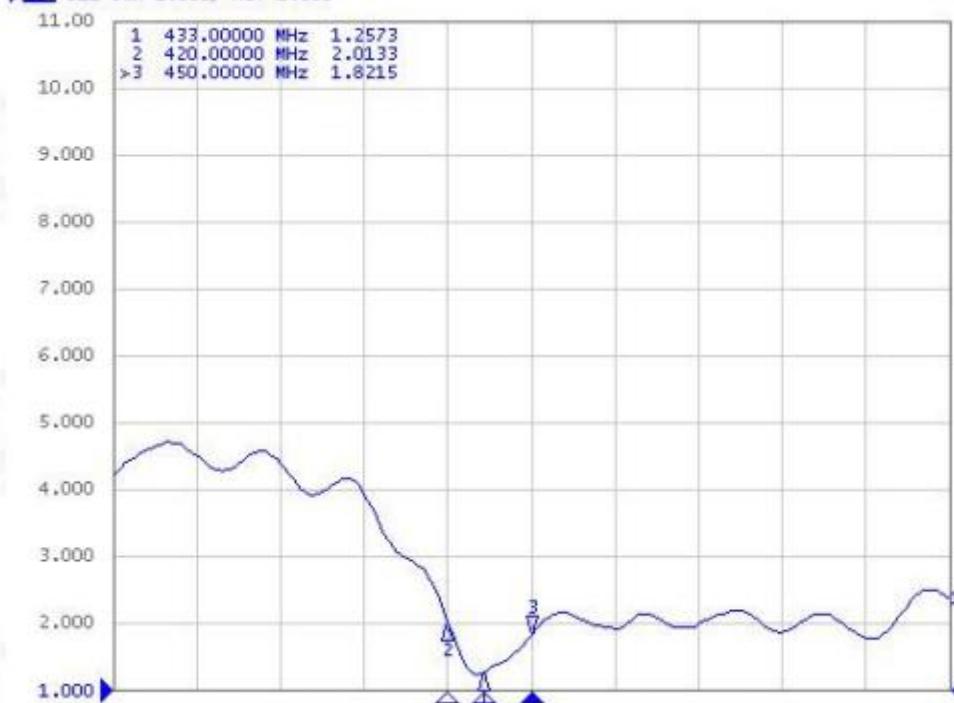
Electrical Specifications

Frequency range	433MHz	Polarization	perpendicularity
Impedance	50 Ω	Radiation direction	omnidirectional
VSWR	≤1.5	Power	50W
Gain	3dBi	Bandwidth	/

Mechanical Specifications

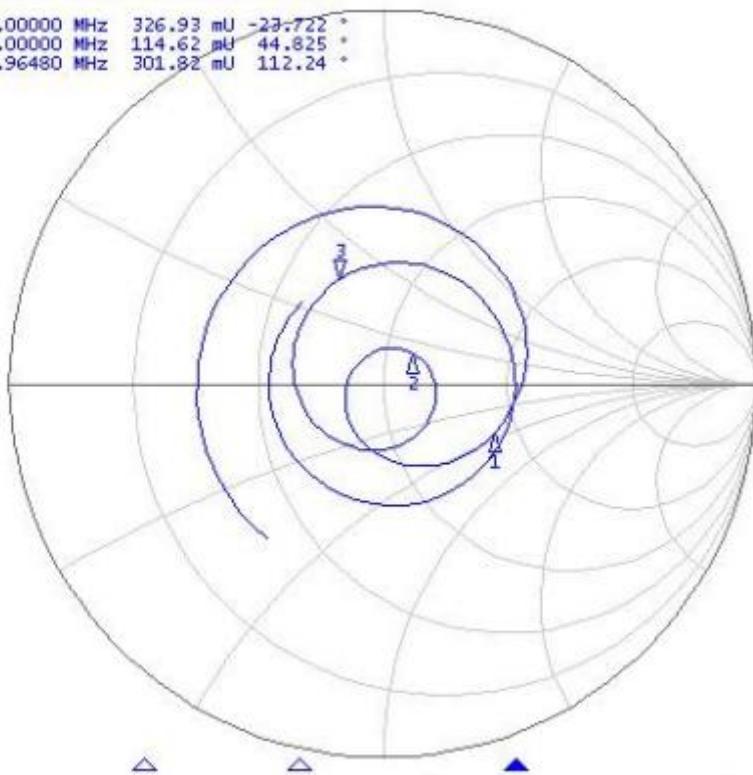
Antenna color	Yellow - Surface heat shrink tube	Antenna Color	-
Interface form	weld	Input connector	weld
Antenna length	42.5MM	Cable length	/
Operating temperature	-40°C~+85°C	Working Temperature	-40°C~+85°C
Working humidity	20~80%	Working Humidity	20~80%

►TPI S11 SWR 1.000/ Ref 1.000



► Test S11 Smith (Lin/Phase) Scale 1.0000

1 420.00000 MHz 326.93 mU -23.722 °
 2 433.00000 MHz 114.62 mU 44.825 °
 >3 450.96480 MHz 301.82 mU 112.24 °



Environmental performance test:

Item	Test condition	specification
Storage environment	1. Test temperature, humidity, and air pressure without specifying the following: 2. temperature: -30°C ~ +80°C Relative humidity: 45%~85% Atmospheric pressure: 86kpa~106kpa	Electrical and mechanical properties are normal
High and low temperature test	Five cycles were performed between 70 ° C and 40 ° C, and then under normal conditions 1 to 2 hours, check the appearance quality.	Dimensions shall meet the specifications and shall meet the requirements Mechanical and electrical properties

Resistance to constant heat and humidity test	Relative humidity $95 \pm 3\%$, test temperature: 40°C . After 2H continuous action, The electrical properties were measured within 5 minutes after the sample was taken out, and the sample was in the normal bar After 1 to 2 hours, check the appearance qualit	Dimensions shall meet the specifications and shall meet the requirements Mechanical and electrical properties
Vibration test	Vibration frequency range 10–55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, frequency sweep cycle: 30 times	Electrical and mechanical properties are normal
Drop test	Free fall 3 times at 1M altitude in the direction of perpendicular axes	Electrical and mechanical properties are normal

