

# APPROVA

**custom :**

**DESCRIPTION:**

**PART NO.:**

22-087

**CUS PART NO.:**

DL-T433-L01

**DATE:**

2022-11-29

confirm

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT
Zhu Hailong	Fan Youyi	Wu Aifeng

confirm

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

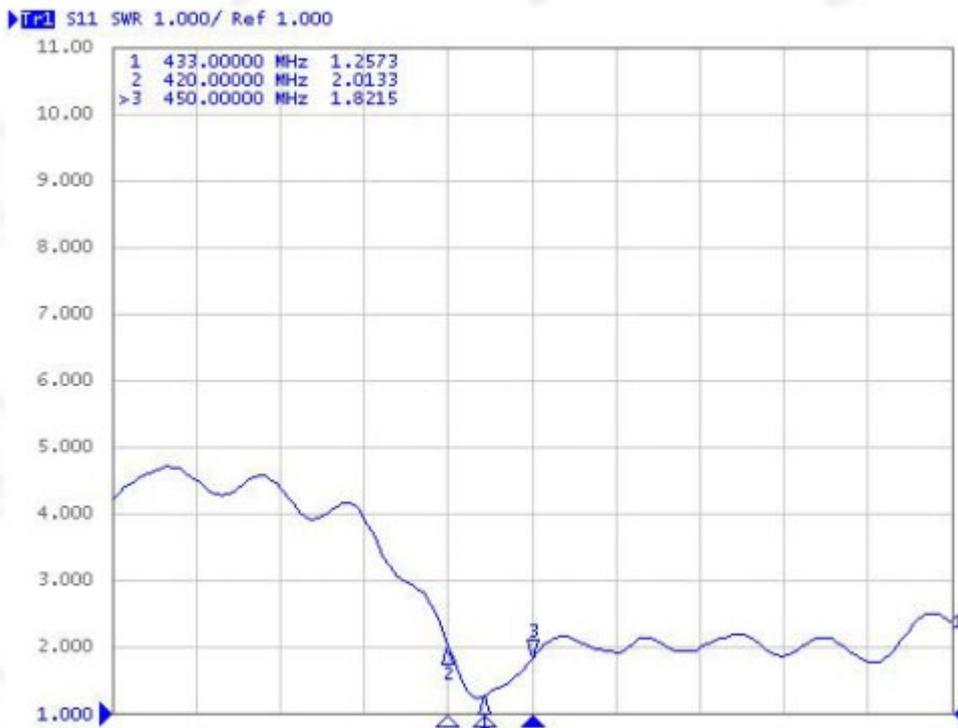
Technical parameters of electrical apparatus

Electrical Specifications

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

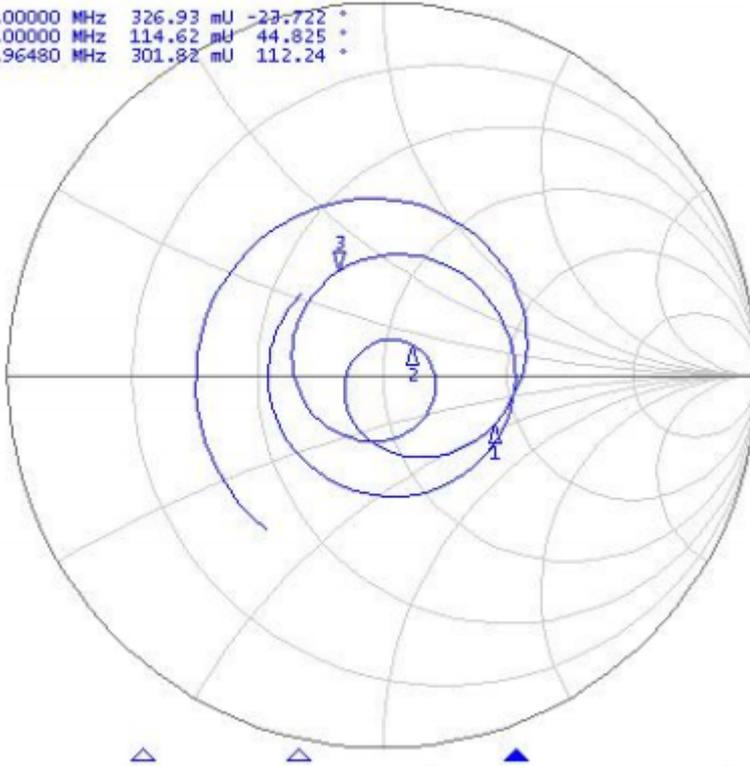
Mechanical Specifications

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%



▶ S11 Smith (Lin/Phase) Scale 1.000U

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

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<p>Resistance to constant heat and humidity test</p>	<p>Relative humidity <math>95\pm 3\%</math>, test temperature: <math>40^{\circ}\text{C}</math>. 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</p>	<p>Dimensions shall meet the specifications and shall meet the requirements Mechanical and electrical properties</p>
<p>Vibration test</p>	<p>Vibration frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, frequency sweep cycle: 30 times</p>	<p>Electrical and mechanical properties are normal</p>
<p>Drop test</p>	<p>Free fall 3 times at 1M altitude in the direction of perpendicular axes</p>	<p>Electrical and mechanical properties are normal</p>

