

# 垂直極化平板定向天線

## Vertically Polarized Plate Directional Antenna

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430~435MHz 5dBi

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Model: WS-ANT433-V5



### Version History

Version	Date	Changes
V1.00	29. May, 2018	1 <sup>st</sup> . Edition

## Important Event

- This product is in general use for the equipment on the premise of the development, design, manufacture. Do not use that require high security purposes, such as machinery or medical, aviation equipment, machinery and transport-related deaths are directly or indirectly related to the system.
- This product should be in this brochure by the instructions of the types and rated voltage power under the current proper use. If violation of this statement by the safety records of the supply operation, I am afraid our company cannot afford any of the responsibility.
- Do not self-decomposition, alteration, repair of the products also will cause fire, electric shock, fault, and dangerous. In addition, their decomposition, alteration, and repair the product, failure is not within the scope of warranty.
- The products are not waterproof, so please do not use and touch water. Take off and on also please note. Rain, spray, drinks, steam, sweat may be a failure.
- Use of this product, please be sure to use according to the statement recorded using methods to operate. Please do not violate attention to the matter reminded to use.
- Please respect this statement recorded by the note. When consumers in contravention of this statement recorded note of the operation, I am afraid our company could not shoulder any responsibility.
- Products are defective, the Company will be responsible for free to amend the flaws, or to the same flawless product or its equivalent products in exchange. However, the Company does not assume based on the requirements of the flaw and loss responsibility.
- The Company reserves the right to retain without notice to users of the cases, the product of hardware / software (version upgrade) is with the right to edit.

### **Declaration**

This product provides different frequency for user selection to meet different telecommunication regulation and CE on different countries.

### **Warranty**

The warranty time is within one year from purchased date. The warranty scope is used in normal situation and none vandalism. (Some function harmful out of warranty scope and Vandalism are Un-warranty).

### **Un-warranty Scope Description**

- Because the natural disaster, accident or human factor to cause the bad damage.
- Violate the product instruction manual to cause the damage of the products.
- The improper assemble causes damage.
- The products used the unsanctioned accessory to cause damaged.
- Overstep the allowed used environment to cause the products damaged.

### **Contact Us**

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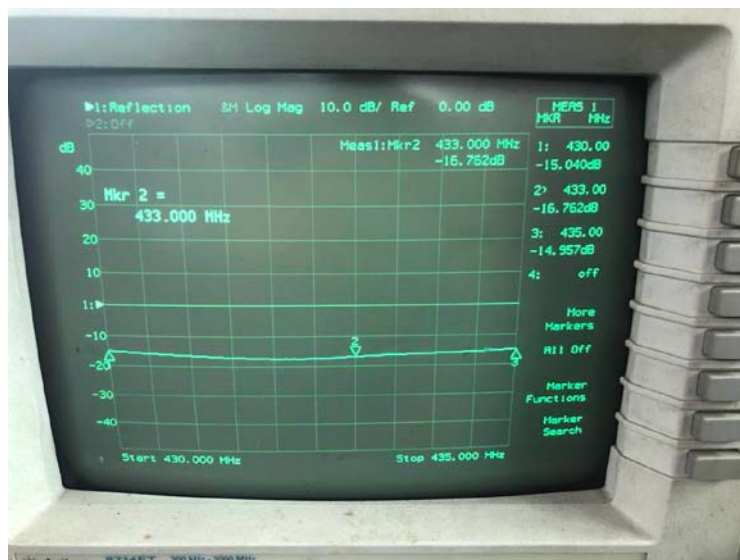
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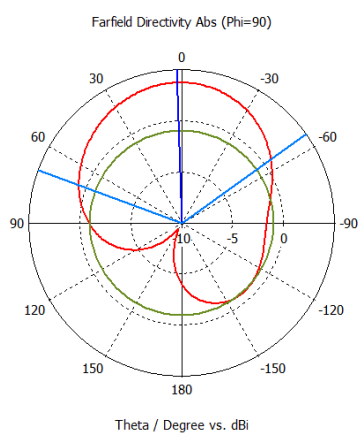
## Specifications

<b>電氣規格 Electrical Specifications</b>	
頻率範圍 Frequency Range(MHz)	430~435
增益 Gain(dBi)	≥5
半功率角 Beam Width(°)	Hor:110±10 Ver:90±10
駐波比 VSWR(°)	≤2.0
前後比 Front-to-back ratio(dB)	≥15
阻抗 Impedance(Ω)	50
極化方式 Polarization(°)	垂直 Vertical
最大功率 Max.Power(W)	50
防雷保護 Lightning protection	直流接地 DC Ground
<b>機械規格 Mechanical Specifications</b>	
接頭 Connector	N-Female
接頭位置 Connector position	底部直出 Connector at the bottom
天線尺寸 Dimension(mm)	260*260*45
淨重 Antenna weight(kg)	1.0
有效受風面積 Wind loading area(m <sup>2</sup> )	≤0.2
最大抗風強度 Rated wind velocity(m/s)	36.9
輻射材料 Reflector material	鋁 Aluminum
天線罩材料 Radome material	ABS+銅 ABS+ Copper
天線罩顏色 Radome color	白色 White
工作溫度 Operating temperature(°C)	-40~+55°C
抱杆直徑 Mounting hardware(mm)	φ40~φ50

## 回波損耗 Return loss

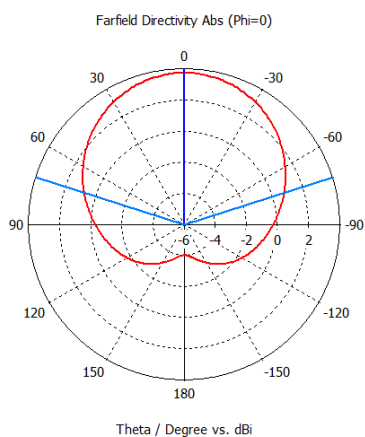


## 輻射性方向圖 Radiation Pattern



— farfield (f=0.433) [1]

Frequency = 0.433 GHz  
 Main lobe magnitude = 3.72 dBi  
 Main lobe direction = 2.0 deg.  
 Angular width (3 dB) = 124.1 deg.  
 Side lobe level = -4.7 dB



— farfield (f=0.433) [1]

Frequency = 0.433 GHz  
 Main lobe magnitude = 3.72 dBi  
 Main lobe direction = 0.0 deg.  
 Angular width (3 dB) = 144.3 deg.