

圓極化平板定向天線

Circular Polarized Plate Directional Antenna

860~868MHz 9dBi

Model : WS-ANT860SMA-C9-H



Version History

Version	Date	Changes
V1.00	12. June, 2018	1 st . 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.
- 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.

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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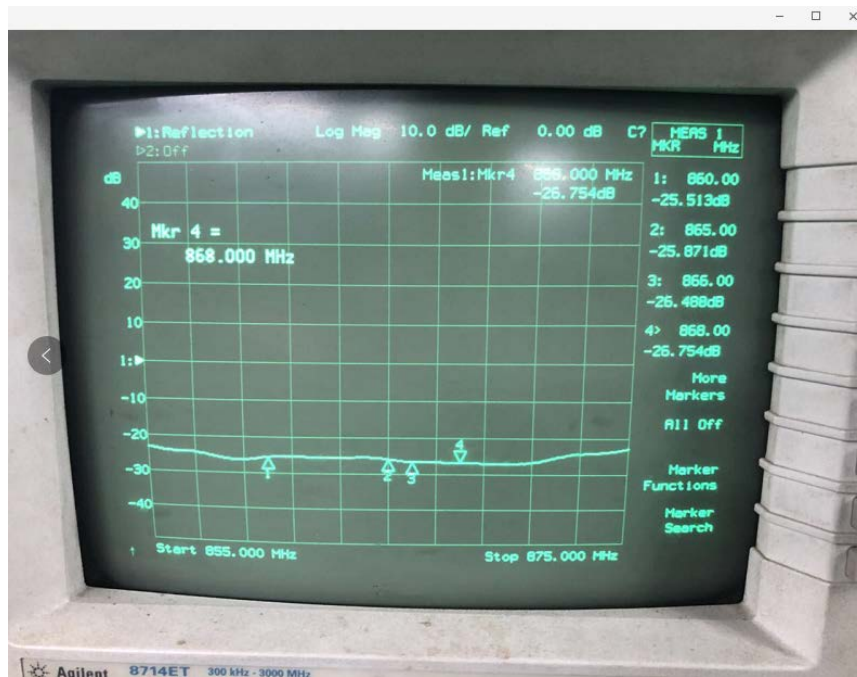
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Product Specifications

電氣規格 Electrical Specifications	
頻率範圍 Frequency Range(MHz)	860~868
增益 Gain(dBi)	9dBi
半功率角 Beam Width(°)	Hor:64 Ver:64
駐波比 VSWR(°)	≤1.3
阻抗 Impedance(Ω)	50
軸比 axial ratio(dB)	≤3
極化方式 Polarization(°)	圓極化 Circular polarization
前後比 Front-to-back ratio(dB)	≥18
最大功率 Max.Power(W)	50
防雷保護 Lightning protection	直流接地 DC Ground
機械規格 Mechanical Specifications	
接頭 Connector	N-male
接頭位置 Connector position	底部直出 Connector at the bottom
天線尺寸 Dimension(mm)	259*259*33.5 mm (不含連接器) Without connector
淨重 Antenna weight(kg)	0.95
有效受風面積 Wind loading area(m ²)	≤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+PC
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

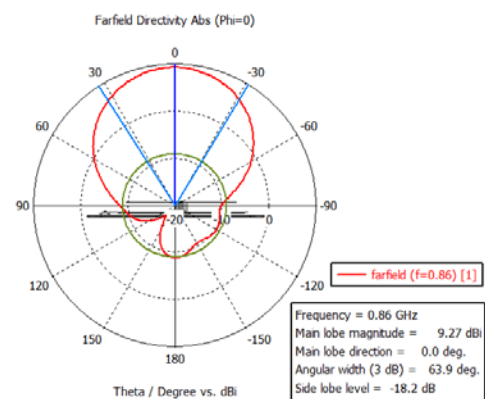
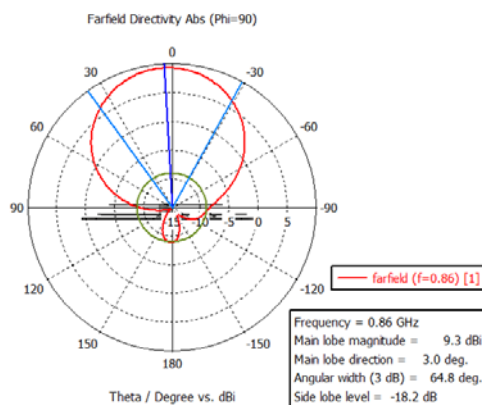
回波損耗 Return loss

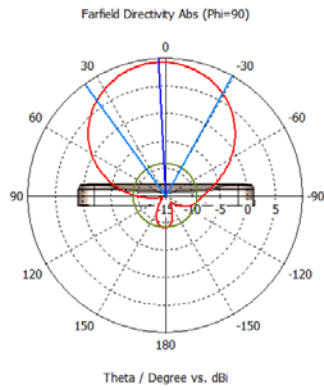


輻射性方向圖 Radiation Pattern

*左為垂直面、右為水平面（圓極化天線垂直和水平面波束寬度十分接近）

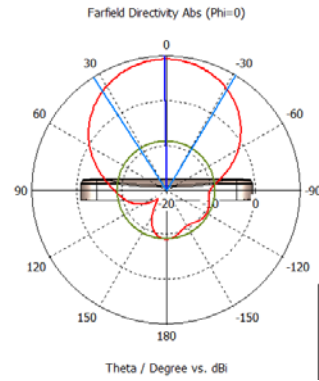
* Left is vertical and right is horizontal





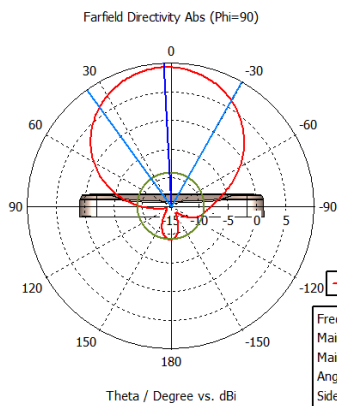
— farfield (f=0.865) [1]

Frequency = 0.865 GHz
Main lobe magnitude = 9.28 dBi
Main lobe direction = 3.0 deg.
Angular width (3 dB) = 65.0 deg.
Side lobe level = -18.3 dB



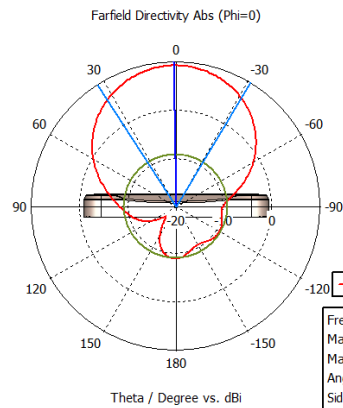
— farfield (f=0.865) [1]

Frequency = 0.865 GHz
Main lobe magnitude = 9.25 dBi
Main lobe direction = 1.0 deg.
Angular width (3 dB) = 63.9 deg.
Side lobe level = -18.3 dB



— farfield (f=0.868) [1]

Frequency = 0.868 GHz
Main lobe magnitude = 9.26 dBi
Main lobe direction = 3.0 deg.
Angular width (3 dB) = 65.2 deg.
Side lobe level = -18.4 dB



— farfield (f=0.868) [1]

Frequency = 0.868 GHz
Main lobe magnitude = 9.23 dBi
Main lobe direction = 1.0 deg.
Angular width (3 dB) = 64.0 deg.
Side lobe level = -18.4 dB

軸比圖 Axial ratio

