



# ANT241 UHF RFID 6dbi Antenna-130mm

## 1. Overview

Suitable for 865-868MHz RFID passive tag reading and writing system.

**Applicable to RFID passive electronic tag reading and writing system in the 865-868MHz frequency band.**

Physical advantages: small size and nice appearance.

**Physical advantages: small size and exquisite appearance.**

Electrical performance advantages: high gain, low standing wave, in the operating bandwidth can achieve excellent tag reading performance.

**Electrical performance advantages: high gain, low standing wave, and excellent tag reading performance can be achieved within the working bandwidth.**

Note: 1. According to the direction of the electronic label paste appropriate adjustment of the installation direction of the antenna, in order to achieve the best reading effect.

**Notes: 1. According to the direction of the UHF tag pasting, adjust the installation direction of the antenna appropriately to achieve the best reading effect.**

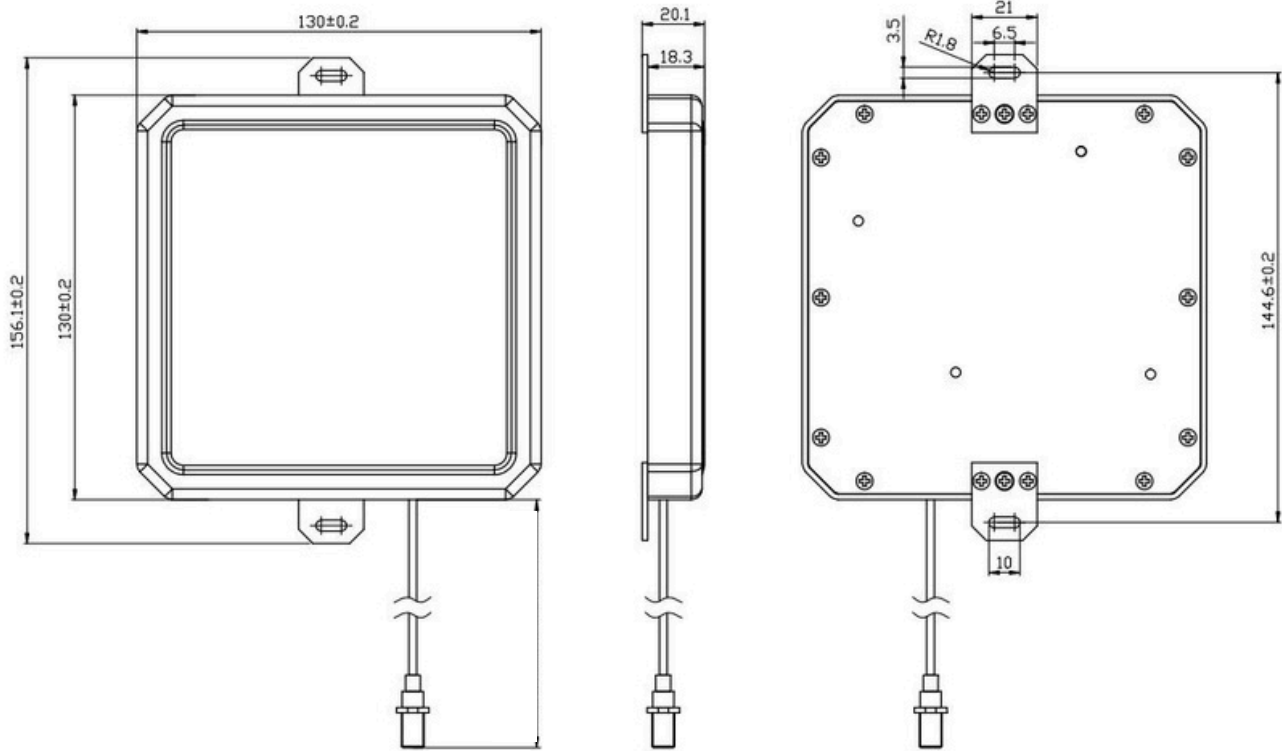
## 2. Electrical Parameters

2.1	Frequency Range Frequency Range(MHz)	865-868MHz
2.2	Gain(dBi)	>6dBi
2.3	Half Power Angle Beam Width(°)	Hor:106°/ Ver:106°
2.4	VSWR	≤1.3
2.5	Characteristic Impedance(Ω)	50Ω
2.6	Polarization Mode Polarization	Circular Polarization
2.7	Axial Ratio (DIB)	The Center Frequency is less than 2 DB

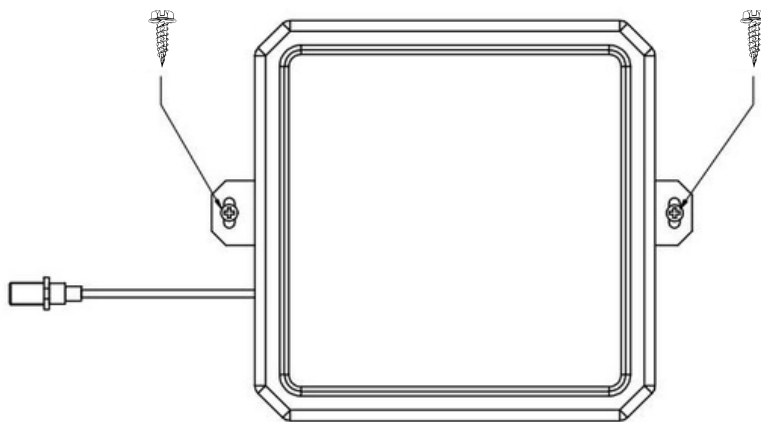
## 3. Mechanical Specine Mons

3.1	Connector	RG316/15cm/SMA-K Side lead RG316/15cm/SMA-K connector can be customized
3.2	Antenna Dimension (mm) Net	130*130*18 mm
3.3	weight Antenna weight(kg)	0.6kg
3.4	Reflector material	F4B high frequency board / copper nickel plating
3.5	Radome material	ABS
3.6	Radome color	White
3.7	Defend protection grade	IP67
3.8	Operating Temperature	-40 to 55°

#### 4. Dimension

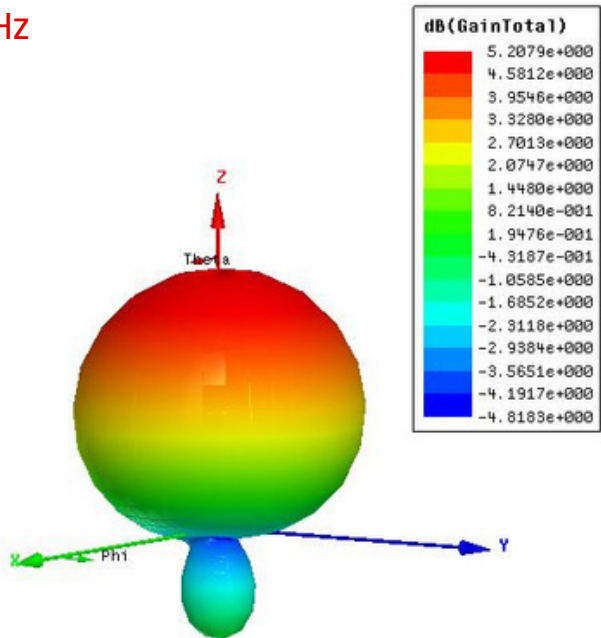


#### 5. Installation Diagram

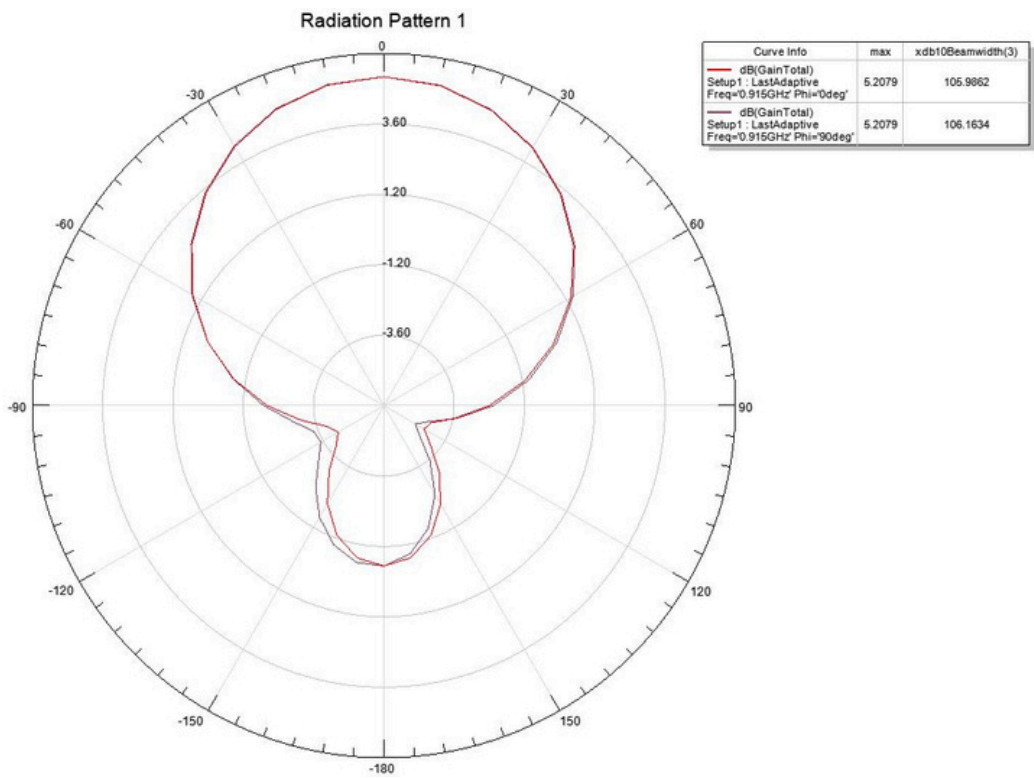


6. Radiation Pattern 865MHz

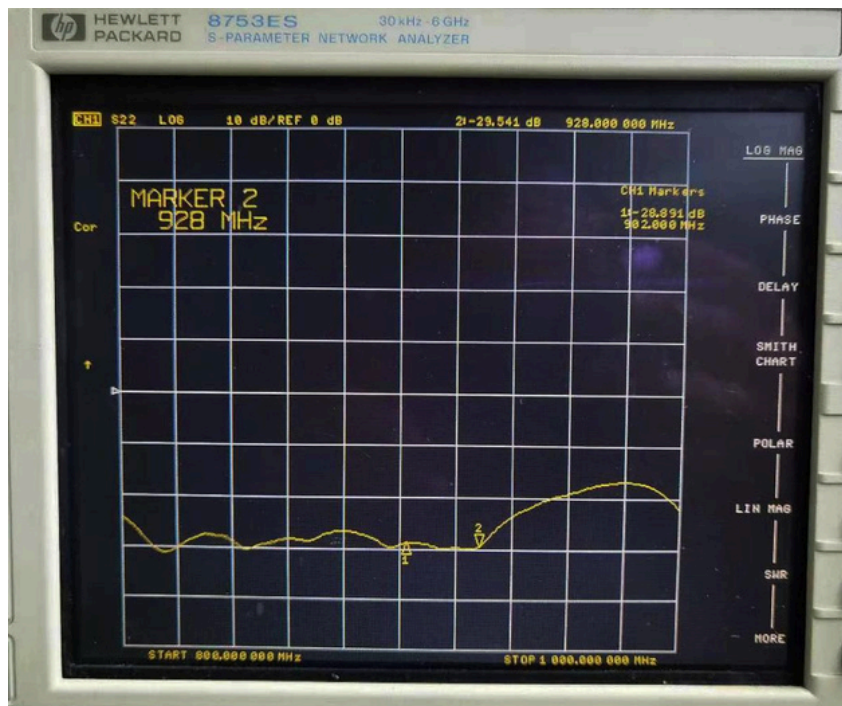
6.1 3D



6.2 2D



## 7. S parameter



## 7. Smith Circule

