

## UHF TAG Antenna specification

### 1. Product overview

Product name: UHF TAG antenna

Model: [Model number]

Application: Suitable for RFID (radio frequency identification) applications in logistics management, warehouse management, asset tracking, supply chain management and other fields.

### 2. Technical parameters

#### 1.1 Frequency range

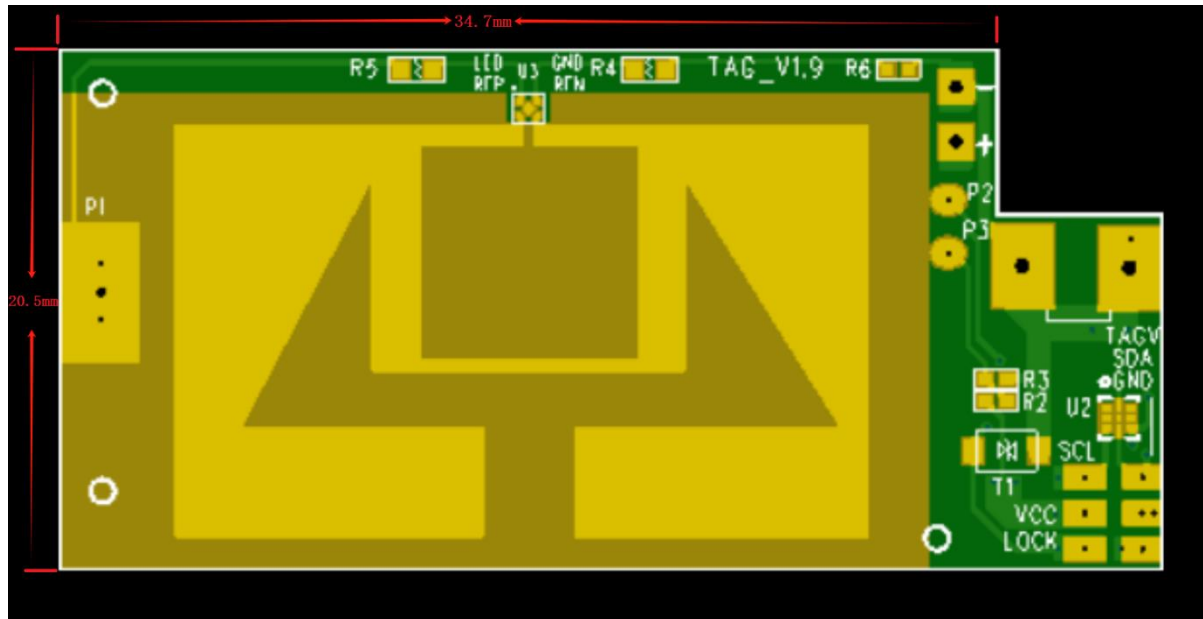
- Operating frequency: 902MHz-968MHz (global frequency band)
- Center frequency: 915 MHz (customizable for specific regions)

#### 1.2 Electrical performance

- Gain: 0 dBi
- Radiation mode: omnidirectional radiation
- **VSWR**:  $\leq 1.5:1$
- Impedance: 50  $\Omega$
- Power capacity: 1 W (Max input power)

#### Size and material

- Antenna size: 20.5mm\*34.7mm
- Material: RF4
- Package form: PCB



#### Environmental adaptability

- Operating temperature: -40° C to +85° C
- Storage temperature: -55° C to +125° C

#### Mechanical property

- Bending radius: minimum 3 mm
- Tensile strength:  $\geq 10$  N

#### Product characteristics

- Efficient read and write: Excellent read and write performance in the global UHF band, suitable for large-scale item tracking applications.
- Miniaturized design: The antenna size is small, easy to embed in a variety of label forms, to adapt to a variety of application scenarios.
- High durability: The use of high-quality materials, with excellent environmental resistance, suitable for use in harsh environments.
- Omnidirectional radiation: Provides omnidirectional radiation mode to ensure read and write stability at multiple angles

#### Installation and use

- Installation method: can be directly attached to the surface of the item, suitable for metal and non-metal materials.

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- Read and write distance: The read and write distance can reach 3-10 meters, depending on the power of the reader used and the environmental conditions.
- Usage recommendation: Ensure that the antenna is in close contact with the surface of the object during installation for best performance.

## Certification and compliance with standards

- Standard: ISO/IEC 18000-6C (EPC Class 1 Gen 2)
- Certification: CE, RoHS, FCC

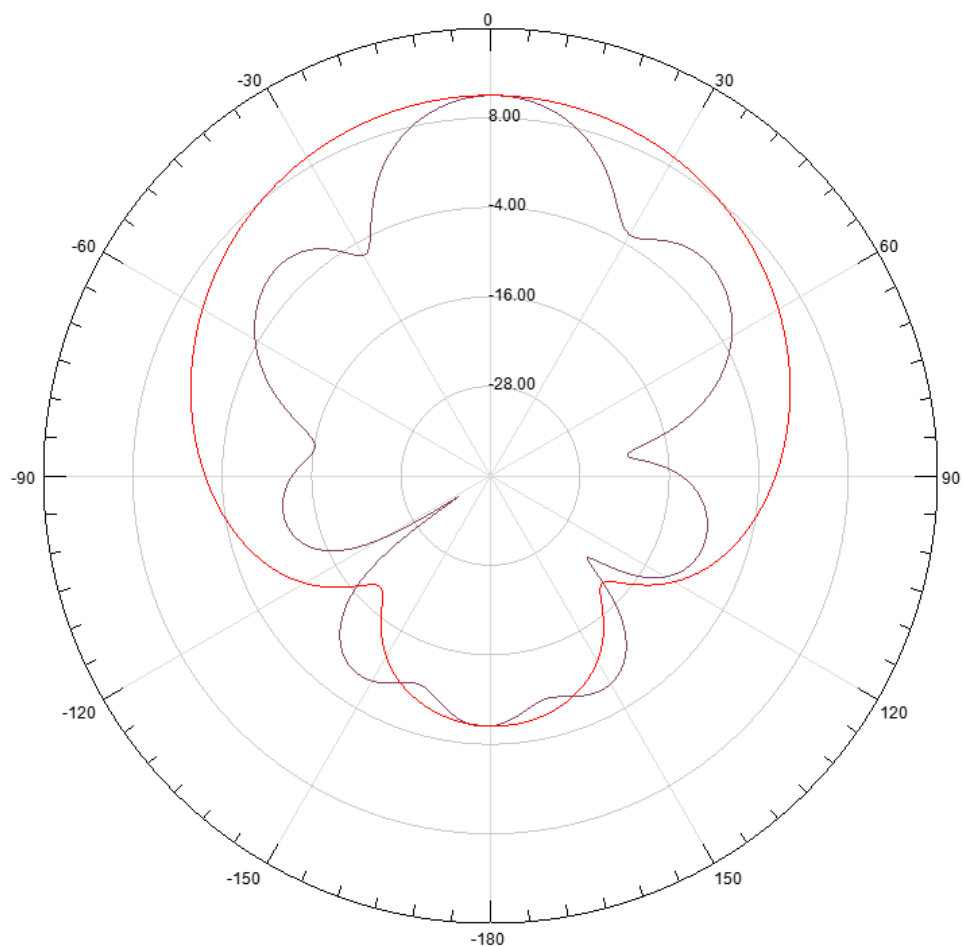
## Quality assurance

- Warranty period: 2 years
- Warranty service: Provide product failure replacement and technical support services.

## 7. Performance report

Inspection items	Indicator requirements	Company	Inspection results		determine
port	/	/	1port		/
frequency range	902~928	MHz	902~928MHz		qualified
gain	0	dBi	11.6	11.8	qualified
3dB horizontal plane beamwidth	65	°	67.2	65.6	qualified
3dB vertical plane beamwidth	28	°	28.3	27.8	qualified
Before and after comparison	$\geq 21$	dB	23.2	24.1	qualified
Electrical Downtilt	0	°	0.2	0.3	qualified
Judgment:					

The directional diagram of the sample has passed the inspection



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