

# UHF RFID ANTENNA (Model: CA504005D-US)

## Summary

CA504005D-US is based on ceramics, with a double feed point design and a flat structure. It has the characteristics of low reflection loss, small axial ratio, and high gain. The ultra-wide microwave receiving frequency range is 920-925MHz, with a center frequency of 922.5MHz. UHF RFID ceramic antennas are mainly used in production process identification, product anti-counterfeiting detection and other systems.

The ceramic antenna can operate normally at temperatures ranging from -40 °C to 80 °C, and with the UHF RFID reader module, the optimal recognition distance can reach about 3m to 5m. The antenna design has very high stability, and there is no directional requirement for reading RFID electronic tags.

## Antenna electrical performance characteristics

NO	PROJECT	INDEX	Allowable error
1	Frequency range	920MHz—925MHz	±5.0MHz
2	Center frequency	922.5MHz	±2.0MHz
3	Bandwidth	10MHzMin	±0.5MHz
4	Standing wave ratio	1.2Min	±0.2
5	Gain	+4.0DBI	±0.2
6	Output Impedance	50Ohm	±0.5
7	temperature coefficient	20max	----

## MECHANICAL SPECIFICATIONS

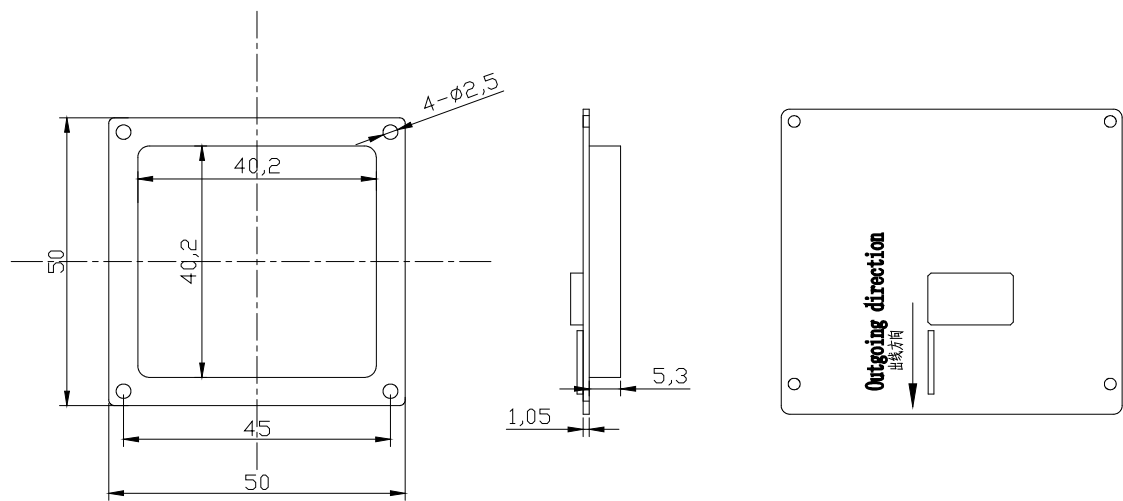
Antenna Dimension	50×50×8mm
RF output Connector	Customizable
Mounting Method	Screw installation
Shockproof Grade	IK08

## ENVIRONMENTAL CONDITIONS

Operating Temp.	-40℃～+85℃
Storage Temp.	-40℃～+85℃

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ANTENNA DIMENSIONS (Unit:mm)



Unmarked dimensional tolerance $\pm 0.2$

