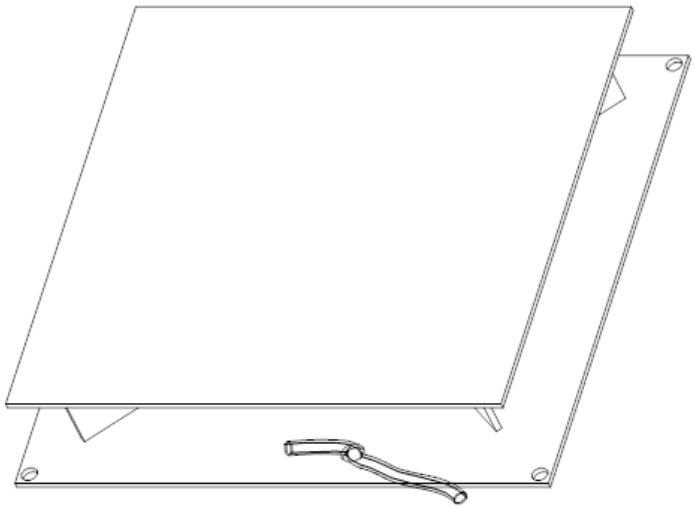
UHF RFID Antenna



Model: RRUANT-P706514US-UT-US

Size: 70×70×14mm

GENERAL DESCRIPTION

RRUANT-P706514US-UT-US is designed with a high-frequency board as its substrate, featuring a four-helix design and a flat structure. It boasts low reflection loss, a small axial ratio, and high gain. With an ultra-wide microwave reception band of 902-928MHz and a center frequency of 915MHz, the antenna exhibits exceptional stability in design. It imposes no directional requirements for reading RFID tags and demonstrates significant advantages in simultaneously reading multiple tags. This product is widely applied in systems for identifying fixed points in production processes and product anti-counterfeiting detection.

CHARACTERISTICS

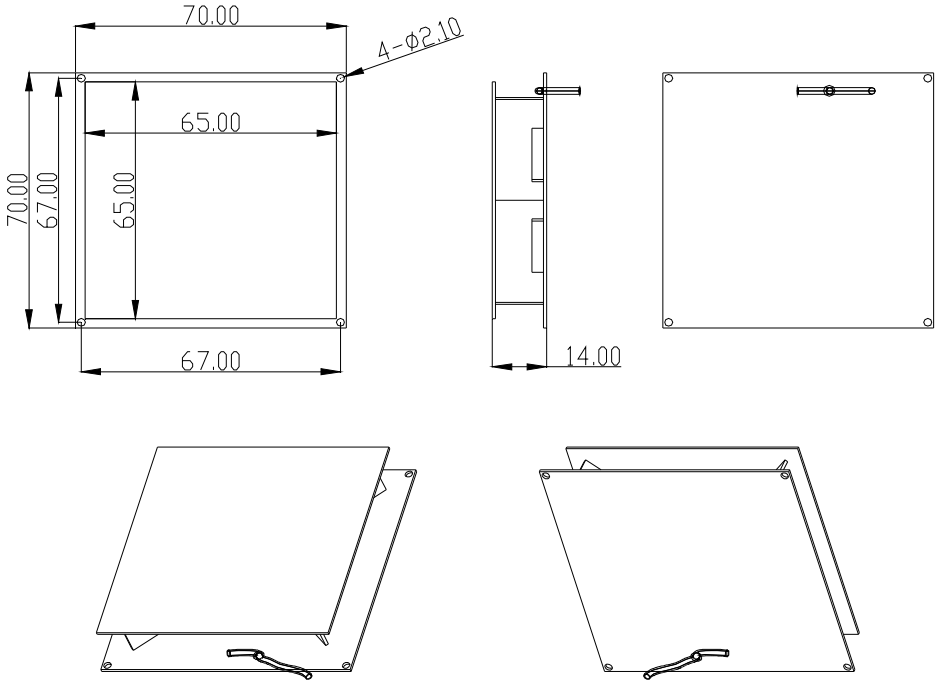
- **Absolute Maximum Ratings**

ITEM	SYMBOL	VALUE	UNIT
Operating Temp	T_{OPR}	-20 ~ +85	℃
Storage Temp	T_{STR}	-45 ~ +90	℃

- **Electrical and Mechanical Specification**

ITEM	VALUE	Allow for Additional Error
Frequency Range	902.0MHz—928MHz	±5.0MHz
Center Frequency Point	915MHz	±2.0MHz
Bandwidth	28MHzMin	±0.5MHz
Standing wave ratio (SWR)	1.2Min	±0.2
Gain	+3.6DBI	±0.2
Characteristic Impedance	50Ohm	±0.5
Frequency Temperature Coefficient	20max	--
RF Output Connector	MMCX-JW，Cable length 50mm，RG178	--
Installation Method	Screw Mounting	--
Shock Rating	IK08	--

MECHANICAL DATA (UNIT: mm)



Unstated dimension tolerance ±0.2

Remark:

1. Specifications are subject to change, please pay attention to our latest version.

2. Shenzhen RoyalRay Science and Technology Co., Ltd. reserves the right to the final interpretation of the above terms.

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