

BRA-01SR RFID Antenna specs

Product number

BRA-01SR antenna

Product features

Electrical performance: The general-purpose antenna suitable for UHF frequency band RFID applications has the characteristics of high gain, low VSWR, and wide-axis ratio.

Mechanical properties: UHF circularly polarized RFID antennas are widely used, side-feed design, compact and beautiful, excellent workmanship, simple installation,

Product advantages: low profile, excellent voltage standing wave ratio and axial ratio parameters, anti-UV aging, high IP protection level.

Main purpose and scope of application

BRA-01SR antenna RFID mid-range parking lot management system, file management, logistics management, asset management, warehouse management, personnel management and other related fields of the Internet of Things. The application areas are mainly in warehouses, warehouses, logistics distribution centers, airports, hospitals, logistics transportation terminals, item conveyor belts, file cabinets and other related fields.

Features

Frequencies: 860MHz ~ 960MHz

VSWR: $\leq 1.3:1$

Gain: $> 8.5\text{dBi}$

Polarization method: right-handed circular polarization

Axis ratio: $< 3\text{ dB}$

Half Power Angle: $70^\circ \times 70^\circ$

Front to back ratio: $\geq 15\text{dB}$

input resistance: $50\ \Omega$

Connector type: TNC male thread inner needle

Connector position: side

Physical

Size: $258\text{mm} \times 258\text{mm} \times 36\text{mm}$

Weight: 0.8kg

Materials: Plastic, aluminum, FR4

Color: White

IP grade: IP65

Working temperature: $-40^\circ\text{C} \sim +85^\circ\text{C}$

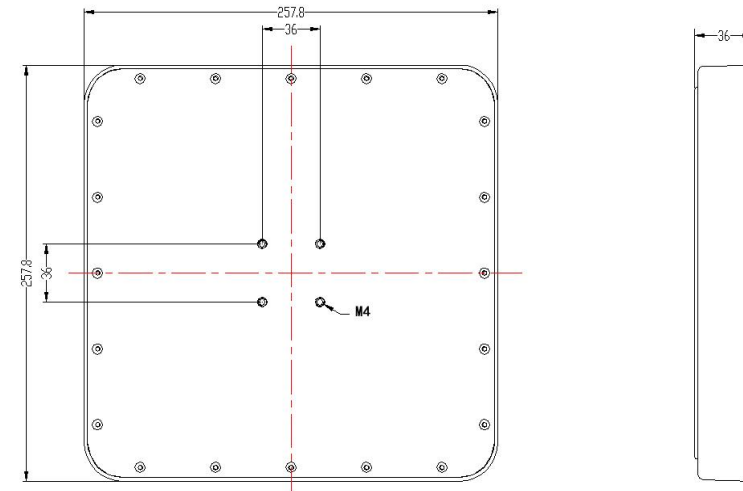
Storage temperature: $-40^\circ\text{C} \sim +85^\circ\text{C}$



Installation

The BRA-01SR antenna can be installed on the steel frame structure through 3M glue or a customized bracket, and connected to the reader through a coaxial cable. The antenna can be installed at will, depending on the installation orientation of the bracket, and the inclination angle of the antenna can be adjusted according to the actual situation after installation. (The bracket is not included in the original factory)

Installation dimensions

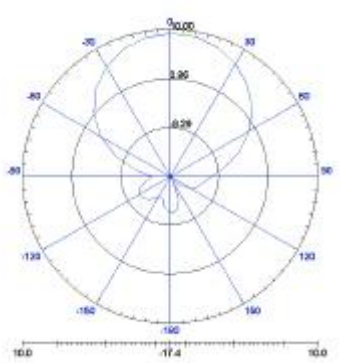


Installation Dimensions

Antenna specific parameters:

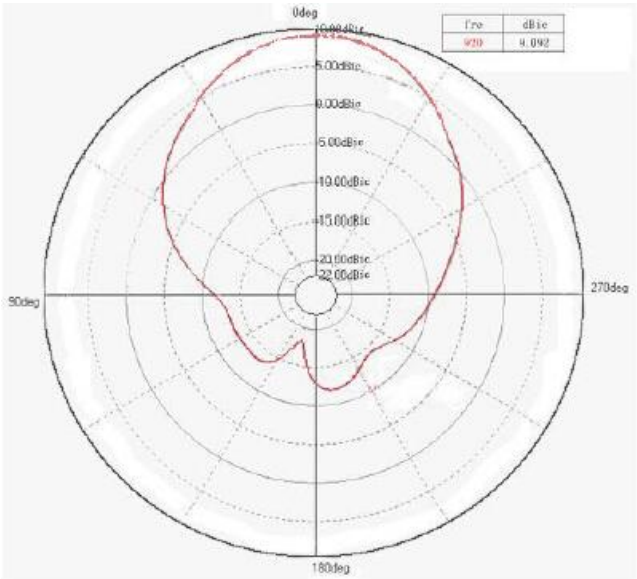
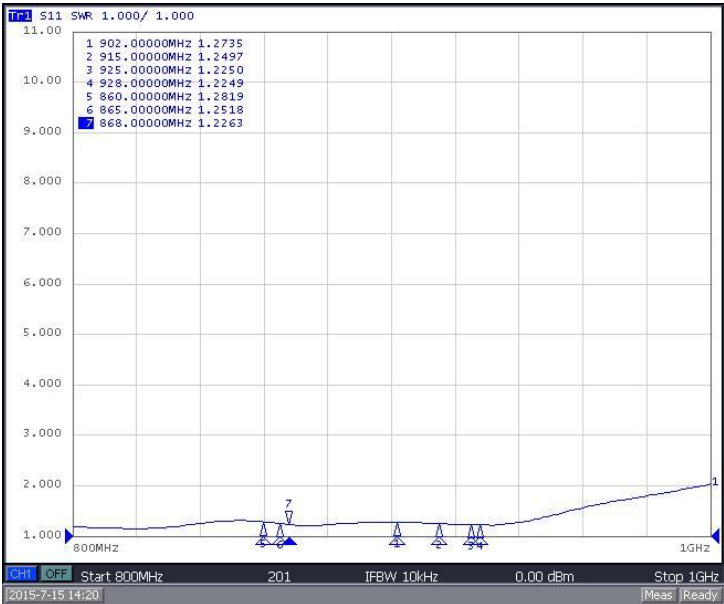


Antenna pattern (H plane)



Antenna pattern (E plane)

Antenna standing wave ratio test chart



Antenna 2D placement pattern

Frequently Asked Questions and Precautions

The BRA-01SR antenna is a broadband circularly polarized directional antenna. When using it, attention should be paid to adjusting the tilt angle of the antenna to obtain the best reading performance.

The BRA-01SR antenna can be used outdoors, but it is not suitable for use in acid/alkali environments.