

Rugged Antenna

XC-AF12-A

Ultra High Frequency
Rugged Design
Remarkable Performance



Overview

Radio Frequency Identification (RFID) antennas from Invengo offer the ability to operate indoors or outdoors, or the ability to withstand extreme harsh environment.

As an essential operational component in reader-tag communications meeting the needs of a RFID system, the circular-polarized XC-AF12-A emits radio waves in a circular pattern. The waves are circularly transmitting, enabling the enhanced read performance.

With robust design, the XC-AF12-A delivers exceptional interference rejection capability in a host of applications.

Featuring high efficiency, rugged design, and structural simplicity, the XC-AF12-A delivers greater application flexibility. It is suitable for use in warehousing, logistics, retail, and access control.

Features

- ☐ Operating frequency 840-930MHz
- ☐ Circular polarization
- ☐ Optimized for long-range identification
- ☐ Gain > 7.15dBi
- ☐ Interference rejection
- ☐ Ultraviolet resistant
- ☐ IP65 rating
- ☐ N-type connector
- ☐ Maximum performance and flexibility

Specifications

UHF Antenna
XC-AF12-A

Physical Characteristics

Dimensions

291mm×291mm×52mm
(11.5×11.5×2.0in)

Weight

0.91kg (2.0lbs)

Material

ASA & Aluminum

IP rating

IP65

Connector

N type

User Environment

Operating temperature

-40°C to +70°C (-40°F to +158°F)

Storage temperature

-40°C to +70°C (-40°F to +158°F)

Humidity Range

5%-95%

Performance Specifications

Working frequency

840-930MHz

Antenna Gain

>7.15dBi

Standing wave ratio (VSWR)

≤1.3:1

Polarization

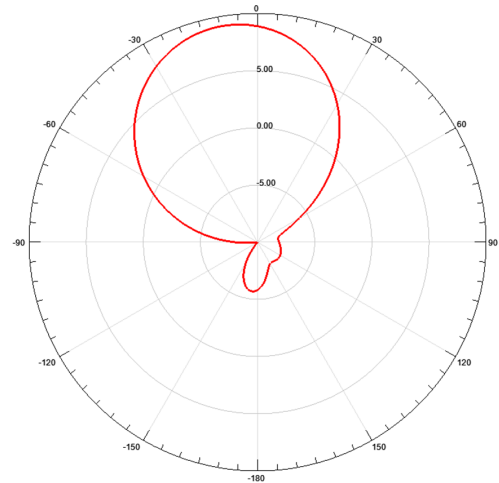
Circular

Input impedance

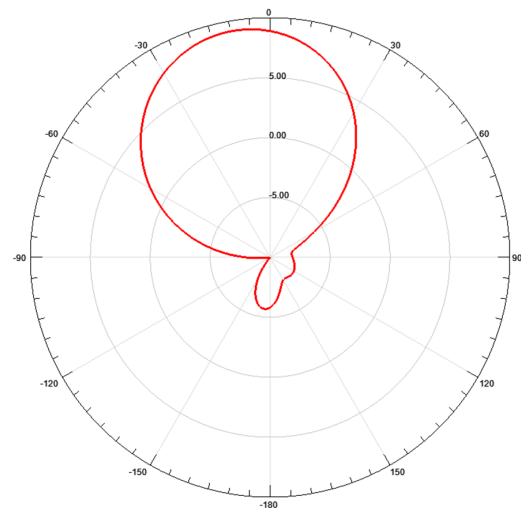
50Ω

Half-power beam width

E plane: 60°; H plane: 60°



Half-power beam width E plane



Half-power beam width H plane

Contact us

Corporate Headquarters

3/F, Bldg.T2-B, High-tech Park South,
Shenzhen, Guangdong 518057 China
Tel: (86) 755 26525585
Fax: (86) 755 26525277
intl@invengo.cn

Invengo Technology Corp. (USA)

12801 Worldgate Drive, Suite 500
Herndon, VA 20170, USA
Tel: (1) 703 793 0085
Fax: (1) 703 871 3901
sales@invengo.com