



AZ-D72

Arizon RFID Technology (Yangzhou, China), 100% owned by YFY Group, is a leading company to provide first-class manufacturing services of inlays /tags /tickets and cards for worldwide RFID industry. By 2012 Arizon has produced and delivered more than 1 billion inlays /tags and the number is 6 billion pcs by Aug of 2017, all products meeting highest quality standards in HF and UHF technology for its valuable customers.

Arizon has established inlay/label monthly production capacity up to 300 million pieces by 2018, and will continue its strong investments to further boost its monthly production capacity for satisfying the market's fast growing needs.

## Overview

### Operating Frequency

860MHz-960MHz

### Integrated Circuit(IC)

NXP UCODE7

### Antenna Size

95x15mm

3.740x0.591inch

### Protocol

EPC Class1 Gen2

ISO/IEC 18000-6C

### Application Areas

Brand Protection

Industry/Retail/Liquid label

Supply Chain Management

## Electrical Characteristics

### Antenna

AZ-D72

Base Material

PET

### IC

NXP

UCODE7

UCODE7m

Memory

EPC:

128Bits

128Bits

User:

0Bits

32Bits

TID:

48Bits

48Bits

Unique TID:

48Bits

48Bits

Access Password:

32Bits

32Bits

Kill Password:

32Bits

32Bits

IC Life

100,000 Programming cycles

50 years data retention

Operating Mode

Passive

Frequency

860 ~ 960MHz

### Standards

ISO 9001:2008

ISO 14001:2004

OHSAS 18001:2007

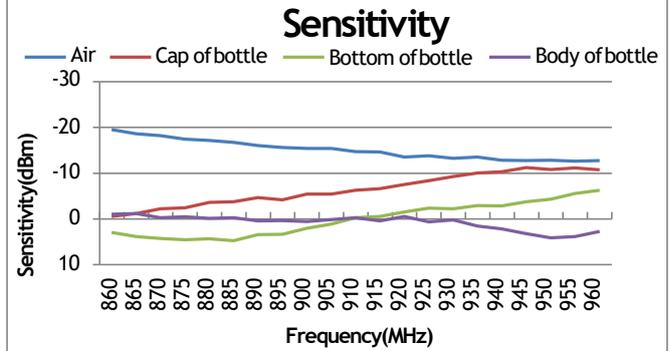
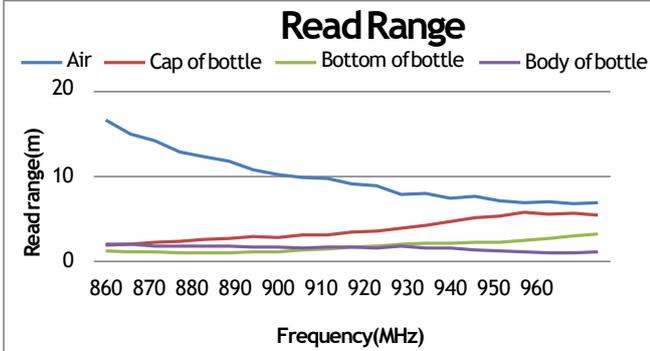
Web site: [www.arizonrfid.com](http://www.arizonrfid.com)

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## Frequency Sweep

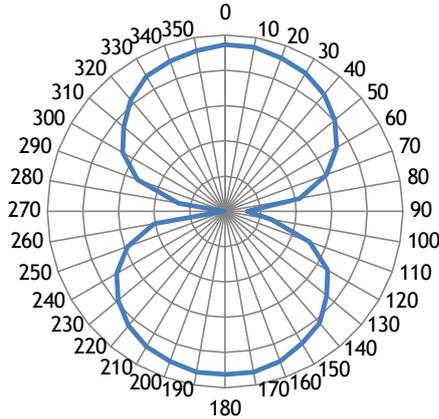


Test power : 4W EIRP

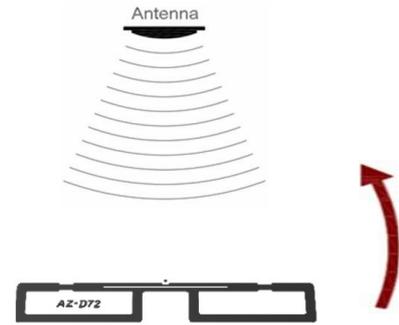
For countries that allow 2W ERP, please reduce the result by 11%

## Radiation Patterns

Angular Sensitivity ( dBm ) ; Power step 0.1dB ; Angle step 10°



Angular Sensitivity  
)Relative Read Range vs.Orientation(



Angular Sensitivity  
Inlay is rotated in the x,y axis, fixed in z axis  
)Tag shown at 0° with respect to face of antenna(

## Usage Method



Cap of bottle



Bottom of bottle



Body of bottle

## Handheld Data

Position	On the cap of water bottle/m	On the body of water bottle/m	On the bottom of water bottle/m
Furthest read range/m	2	0.8	1.2

Handheld model: Denso BHT1281QULWB-CE Power setting: Level 20=29.4dBm

Arizon RFID Testing Center:

RFID UHF Band: 800-1000MHz; Shielding effectiveness: > 100 dB; Background noise: < -75 dB Compatible to the following international standard:

EPC Global Class1 Gen2; ISO 18000-6C; GS1 TIPP (Tagged Item Performance Protocol )