

AZ-DF20

MW CARD AND RFID TECH LTD. founded in 1993 as the first RFID manufacture in China, have been providing professional RFID manufacture service to our global partners for 26years with great reputation for honesty. We produce the whole Smart Cards and RFID product not only ISO size but also customization produce to meet various applications. We own the world classic RFID production lines to help our partners to achieve goal to make high quality product with excellent capacity and best cost .

## Overview

### Operating Frequency

860MHz-960MHz

### Integrated Circuit(IC)

EM4423

### Antenna Size

23X50mm

0.906X1.969inch

### Protocol

ISO/IEC 18000-6C EPC Class1 Gen2  
ISO/IEC 14443A-3

### Application Areas

Brand Protection  
Industry  
Supply Chain Management  
HF function/UHF function

## Electrical Characteristics

### Antenna AZ-DF20

#### Base Material

PET

#### IC

#### EM

4324

4423

#### Memory

EPC:	96Bits	128(224)Bits
User:	720Bits	160(64)Bits
TID:	32Bits	32Bits
Unique TID:	64Bits	32Bits
Access Password:	32Bits	\
Kill Password:	32Bits	\

#### IC Life

100,000 Programming cycles  
50 years data retention

#### Operating Mode

Passive

#### Frequency

860 ~ 960MHz

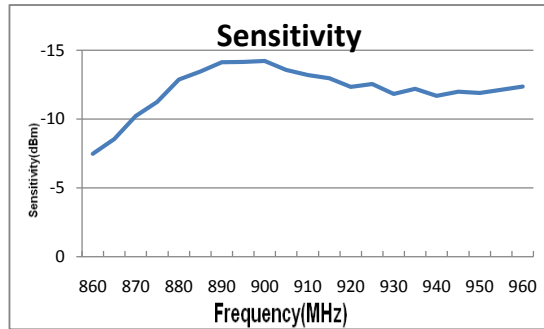
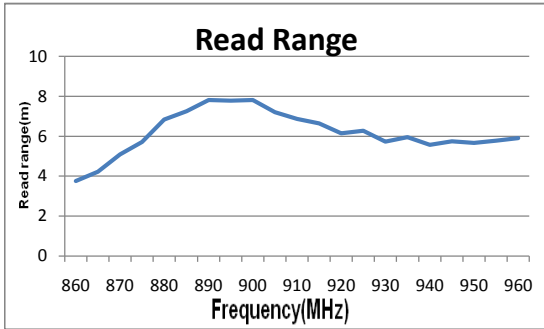
#### Standards

ISO 9001:2008  
ISO 14001:2004  
OHSAS 18001:2007



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**Frequency Sweep**

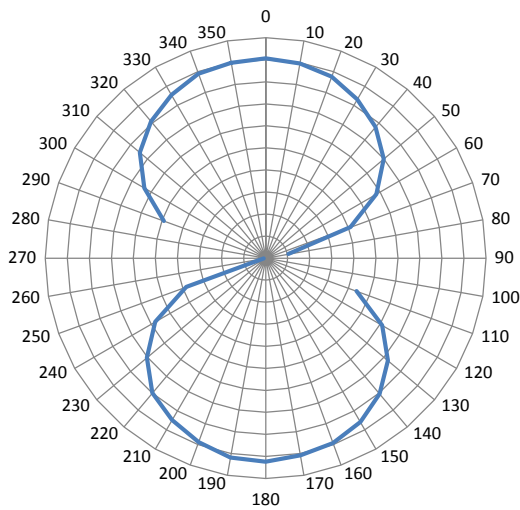


Test power : 2W ERP

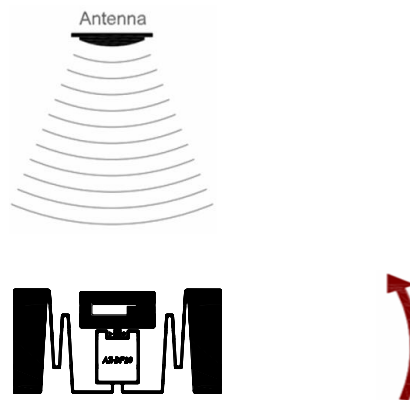
For countries that allow 4.00 W EIRP, please add 11% to the results

**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)

**HF Feature**

Frequency	Q value	Read range
13.8MHz	/	35mm

MW CARD AND 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; ISO/IEC 14443A-3; GS1 TIPP (Tagged Item Performance Protocol)