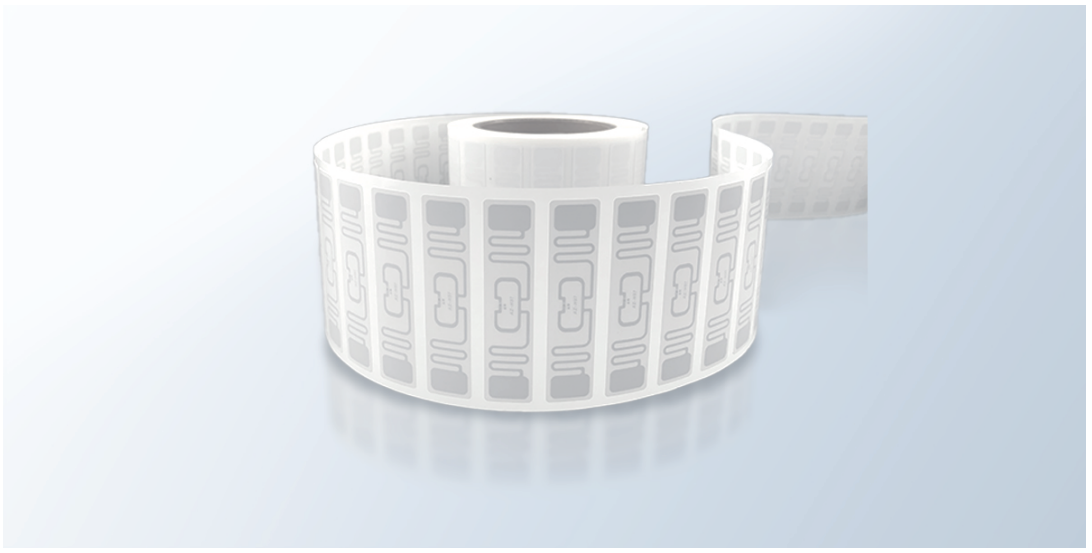
AZ-H97-CP-1773

73×17 mm ARC Certified H97 Ucode® 9 RFID Label

UHF | ISO/IEC 18000-6C | EPC Global Gen2V2 | 73 x 17 mm



Key Features

Operating Frequency
UHF 860-960 MHz

Chip Type
NXP® Ucode® 9

International Standard
ISO/IEC 18000-6C, EPC Global Gen2v2

EPC Memory
96 bits

TID Memory
48 bits

Max Read Range (2W ERP FCC)
21 m

Max Read Range (2W ERP ETSI)
22 m

1. Product Overview

The ARC-certified RFID label is available to Walmart merchants for recording apparel merchandise information and brand protection against counterfeiting. The RFID chip is embedded in the label and the data inside the chip is detected by the RFID reader and transmitted to the system for control of the required information. In addition, the RFID label can be used for EPC Global Gen2v2 and ISO/IEC 18000-6C international standard protocols.

2. Product Parameters

2.1 Physical Characteristics

SKU	AZ-H97-CP-1773
Material	Coated Paper
Size	73×17 mm
Antenna Size	70×14 mm

2.2 Technical Parameters

Operating Frequency	860-960MHz
Communication Protocol	ISO/IEC 18000-6C, EPC Global Gen2v2
Read Range	Up to 22 m(ETSI standard) Up to 21 m(FCC standard)
ESD Voltage Immunity	Max. 2000V
Operating Mode	Passive

RFID label

2.3 Chip Characteristics

Chip Manufacturer	NXP®	
Chip Type	NXP Ucode® 9	
Data Retention	20 years	
EPC memory	96 bits	
User memory	0 bits	
TID memory	48 bits	
Reserved Memory	Access Password(0 bits)	Kill Password(32 bits)
Write Endurance	100,000 times	
Read/Write sensitivity (dBm)	-22 dBm (ETSI standard) -22 dBm (FCC standard)	

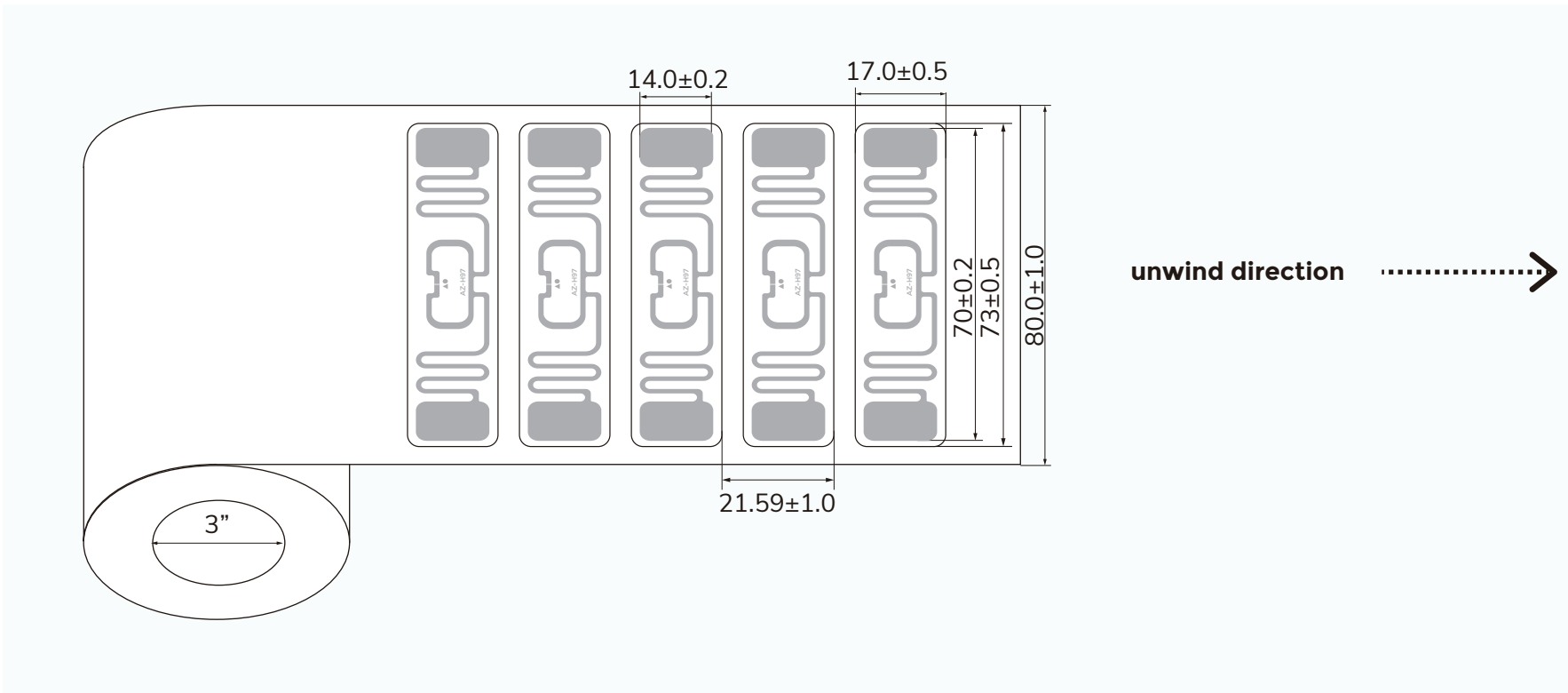
2.4 Additional Information

Operating Environment	Label attach: +10°C~+40°C, 20%~80% RH After label attached: -20°C~+50°C, 20%~80% RH
Storage Environment	+18°C~+28°C, 40%~60% RH
Handling Precautions	1.Do not bend. 2.Keep away from water and collision. 3. Inlays with black-dot marks are bad ones, do not use.

2.5 Packaging

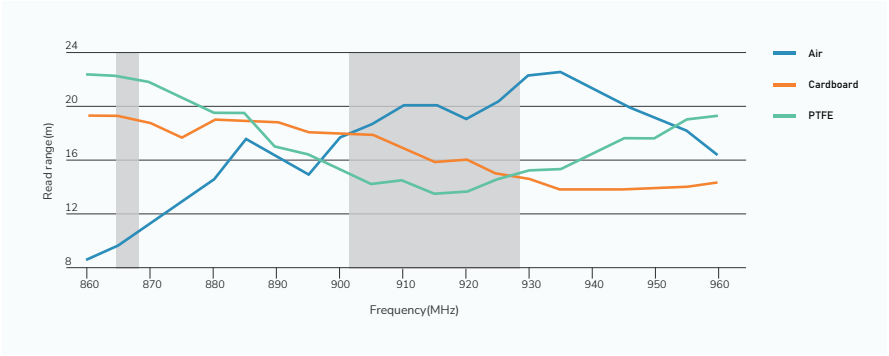
Packing Format	Packed in roll, vacuumed packing in ESD bag
Roll OD	Max. 230 mm
Core ID	3 inch(76.20±0.50 mm)
Packing Quantity	6000 ± 100 Pcs/ roll
Carton Dimension	255×255×380 mm

3. Label Dimensions

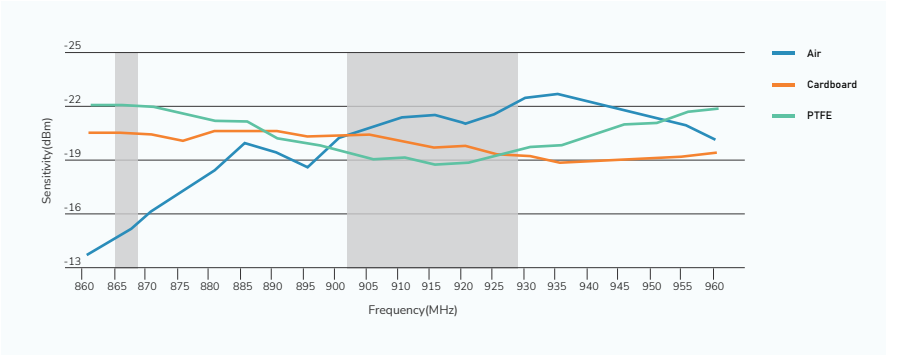


4. Testing Graphs

4.1 Reading range under different frequency

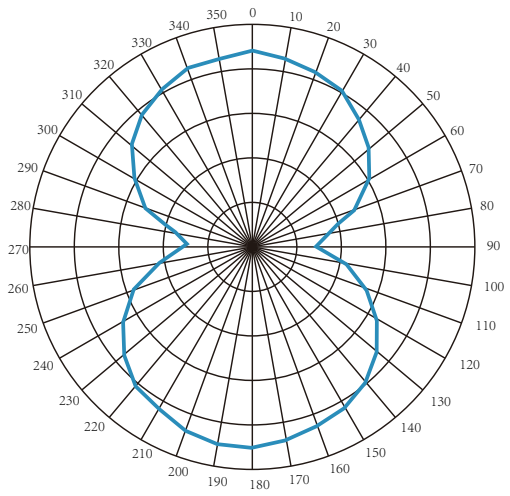


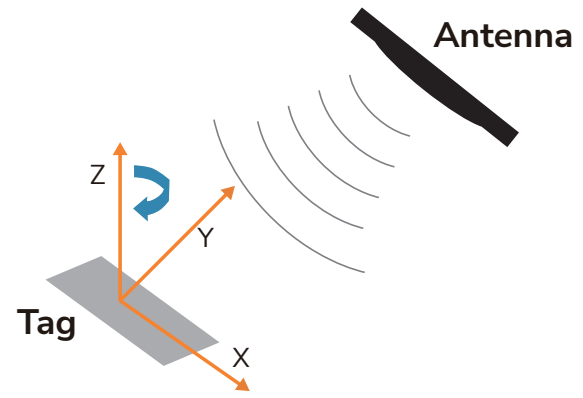
4.2 Tag power under different frequency



All the graphs are based on our lab testing： performance in real life applications may vary.
Test power： 4W EIRP. For countries that allow 2W ERP, please reduce the result by 11%.

4.3 Orientation Sensitivity





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

ARC approved inlay spec

F	H	I	L	O	Q	R	T	U	S	Z
●		●	●	●	●	●				

W2	W5	W6	Y	Y2	C2
●	●	●	●	●	

● :Pass

Auburn University 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 18000-63; GS1 TIPP (Tagged Item Performance Protocol)

RFID label

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RoHS compliant REACH TSCA