

# WA-P-LBRFID-04-002 Specification

## 1. Explanation of part number :

WA    -    P    -    LBRFID    -    04    -    002  
 (1)        (2)        (3)        (4)        (5)

- (1) Product Type: WIFI + RFID Antenna  
 (2) Material: PCB+FPC+Holder+Cable  
 (3) Frequency: 2400MHz-2500MHz&5150MHz-5450MHz、865MHz-868MHz  
 (4) Coaxial Cable Type:04  
 (5) Suffix: 002

## 2. Operating Condition:

Temperature                      -40    to    +70℃

Humidity                              20    to    65% RH

## 3. Storage Condition:

Temperature                      -40    to    +70℃

Humidity                              10    to    85% RH

Recommended storage condition ( storage period of one year ) :

Store in room condition as listed below: Temperature -20℃~+45℃, Humidity 80% Max

## 4. Electrical Specification :

*Those specifications were specially defined for **HONEYWELL** model, and all characteristics were measured under the customer's machine.*

### 4.1 Frequency Band:

Frequency Band	MHz
WIFI Antenna	2400-2500/5150-5850

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ±                      X.X = ±0.15                      X.XX = ±0.15

ANGLES = ±                      HOLEDIA = ±

SCALE : /                      UNIT : mm

DRAWN BY : 徐鑫鑫                      CHECKED BY : 李志强

DESIGNED BY : 刘硕                      APPROVED BY : 唐龙

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RFID Antenna

865-868

## 4.2 Impedance

50 ohm nominal

## 4.3 Matching circuit

None

## 4.4 VSWR

## 4.4.1. Measuring Method

- 1.A 50Ωcoaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the Return Loss
- 2.Keeping this jig away from metal at least 20cm

## 4.4.2. Measurement frequency points and VSWR value

## ➤ WIFI

Mark	Frequency	Return Loss
1	2450MHz	≤-10dB
2	5450 MHz	≤-10dB



UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ±      X.X = ±0.15      X.XX = ±0.15

ANGLES = ±

HOLEDIA = ±

SCALE : /

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## ➤ RFID

Mark	Frequency	Return Loss
1	865MHz	$\leq -10\text{dB}$
2	868MHz	$\leq -10\text{dB}$



## 4.5 Test Data(整机测试)

## ➤ WIFI

ITEM	SPECIFICATION	
Frequency Band	2.40GHz~2.50GHz	5.15GHz~5.85GHz
VSWR	< 4.5	< 4.5
Polarization	Linear	Linear
Peak Gain	< 0.5dBi	< 2dBi
Average Efficiency	> 35%	> 40%

UNLESS OTHER SPECIFIED TOLERANCES ON :

X =  $\pm$       X.X =  $\pm 0.15$       X.XX =  $\pm 0.15$ ANGLES =  $\pm$ HOLEDIA =  $\pm$ 

SCALE : /

UNIT : mm

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Impedance	50Ω Typ.	50Ω Typ.
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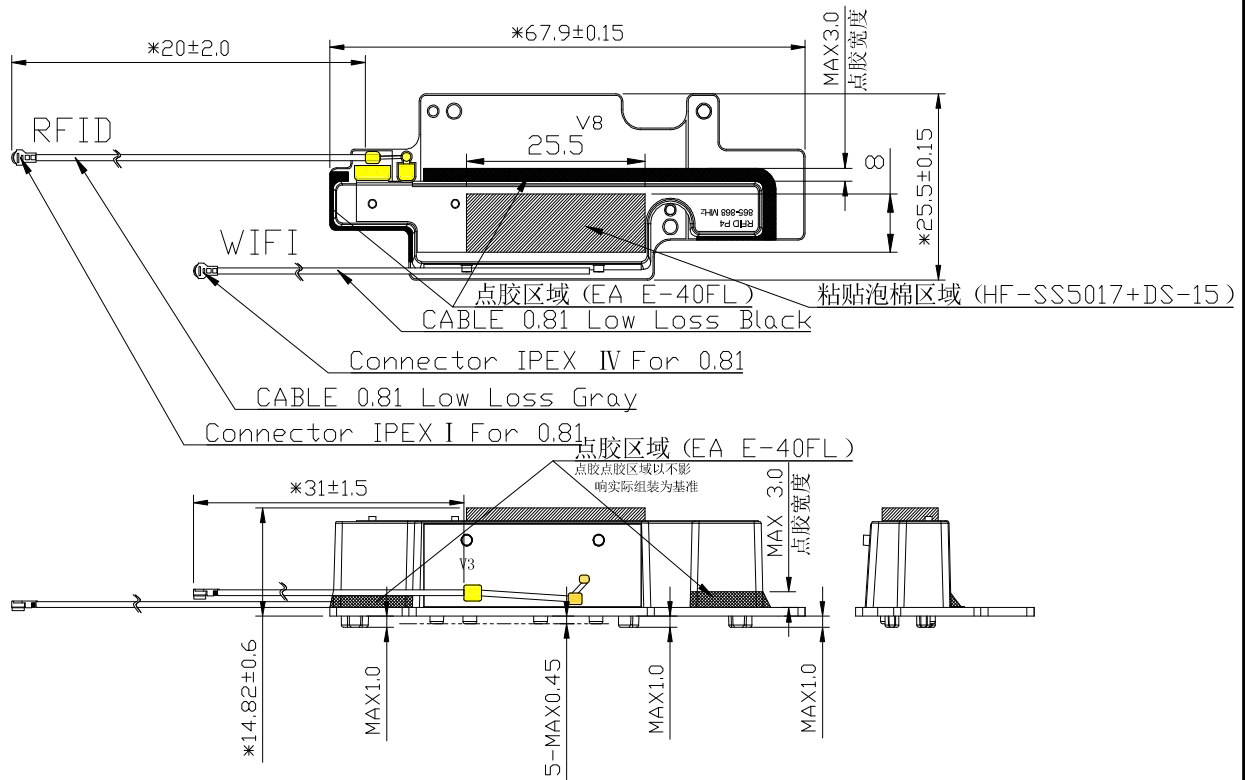
## ➤ RFID

ITEM	SPECIFICATION
Frequency Band	865MHz~868MHz
VSWR	< 4.5
Polarization	Linear
Peak Gain	> -1dBi
Average Efficiency	> 30%
Impedance	50Ω Typ.

**5. Mechanical Specification : ( \* 为重点尺寸 ) •**

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 3-1-1

**Figure 3-1-1 The antenna drawing**

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ±      X.X = ±0.15      X.XX = ±0.15

ANGLES = ±

HOLEDIA = ±

SCALE : /

UNIT : mm

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