

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

TITLE : WA-P-LBRFID-04-002 Specification



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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



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HOLEDIA = ±

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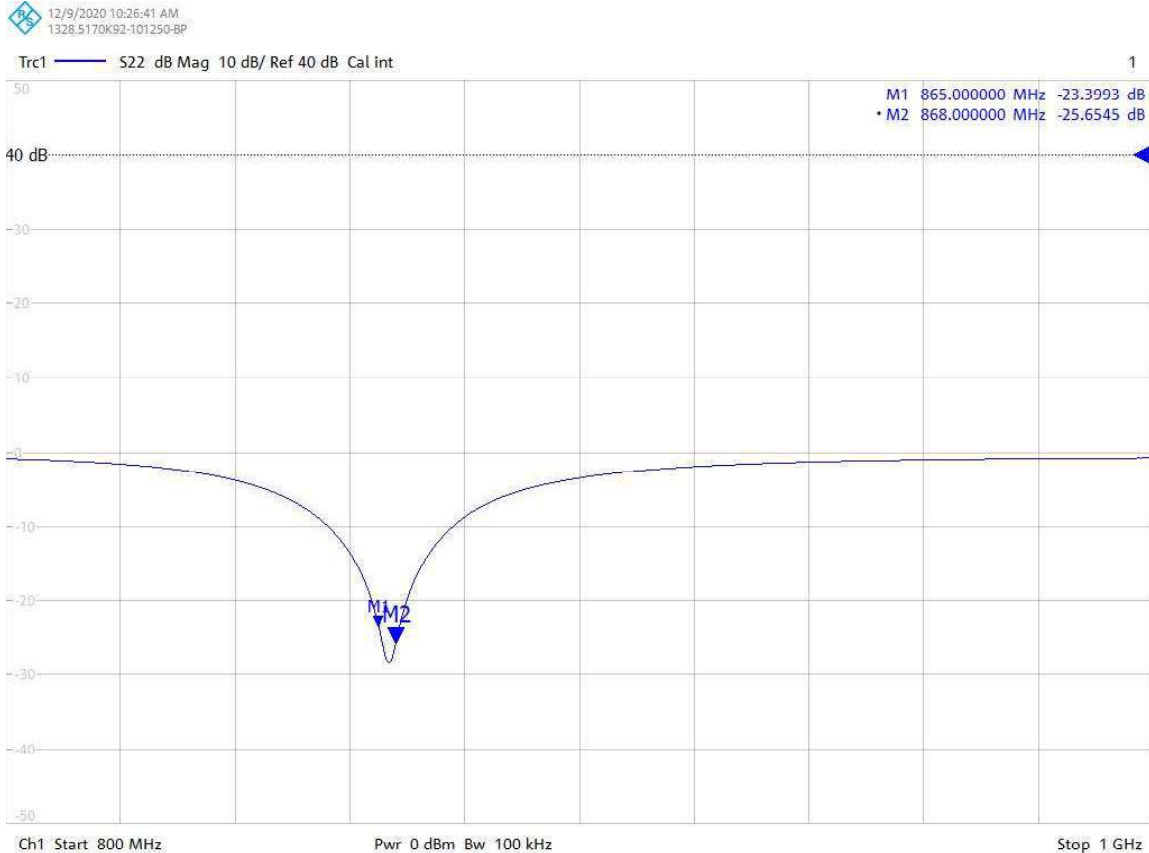
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➤ RFID

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 = ± 0.15 X.XX = ± 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

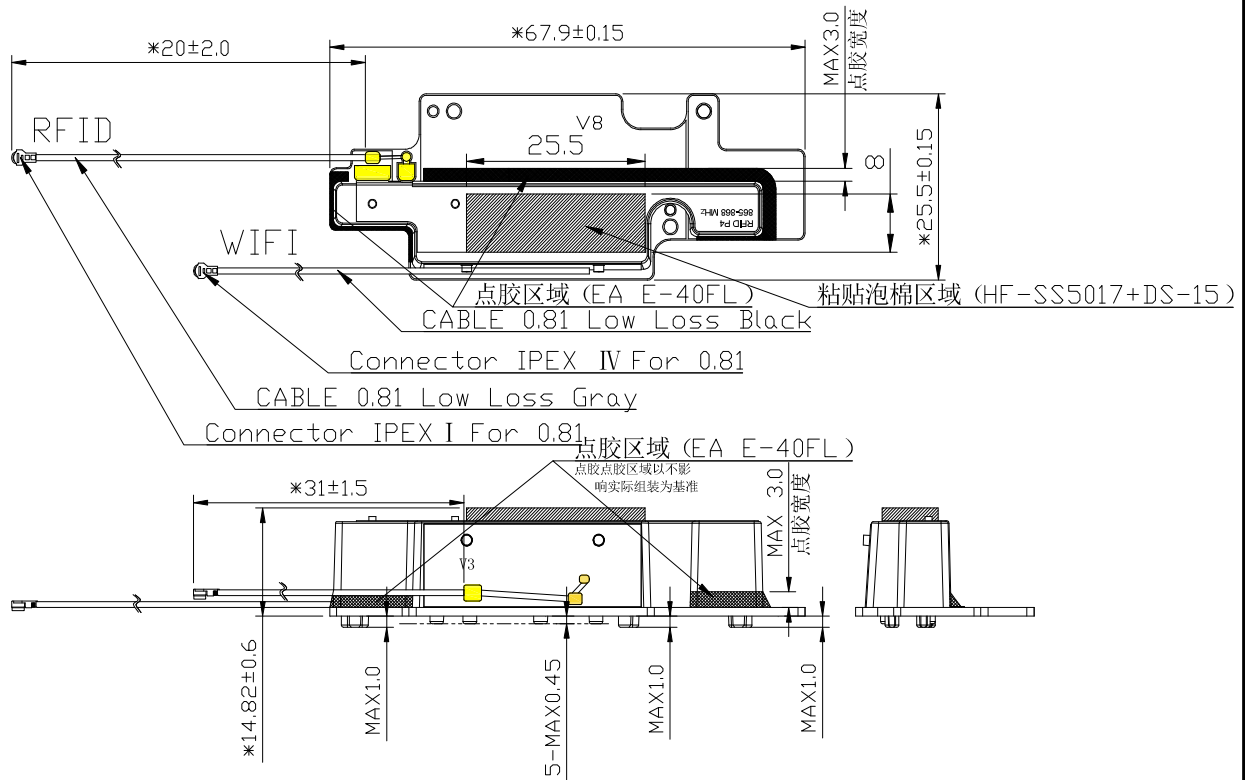


Figure 3-1-1 The antenna drawing

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ± X.X = ±0.15 X.XX = ±0.15

ANGLES = ±

HOLEDIA = ±

SCALE : /

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