



Amphenol

APPROVAL SHEET

ANTENNA,WIFI LH 3.2

Customer: LUCID; Customer P/N: P11-J67E00-02

Supplier: SAA; Part Number: UDB332-04-000-C-FE

SAA function:	Name:	Sign:	Date
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Customer :	Name/Title:	Sign:	Date

Project: H150-2	Author: Eason Wang	File Name: UDB332-04-000-C.doc
Date: 2020-06-01		
Revision:		
	B	
Shanghai Amphenol Airwave Communication Electronics Co.,Ltd Address:No.689 Shen Nan Rd,Xin Zhuang Industrial area,Shanghai		

Date:	Revision:	Updates and changes:	Issued by:
2020-06-01	A	Original release of the approval sheet	Eason Wang
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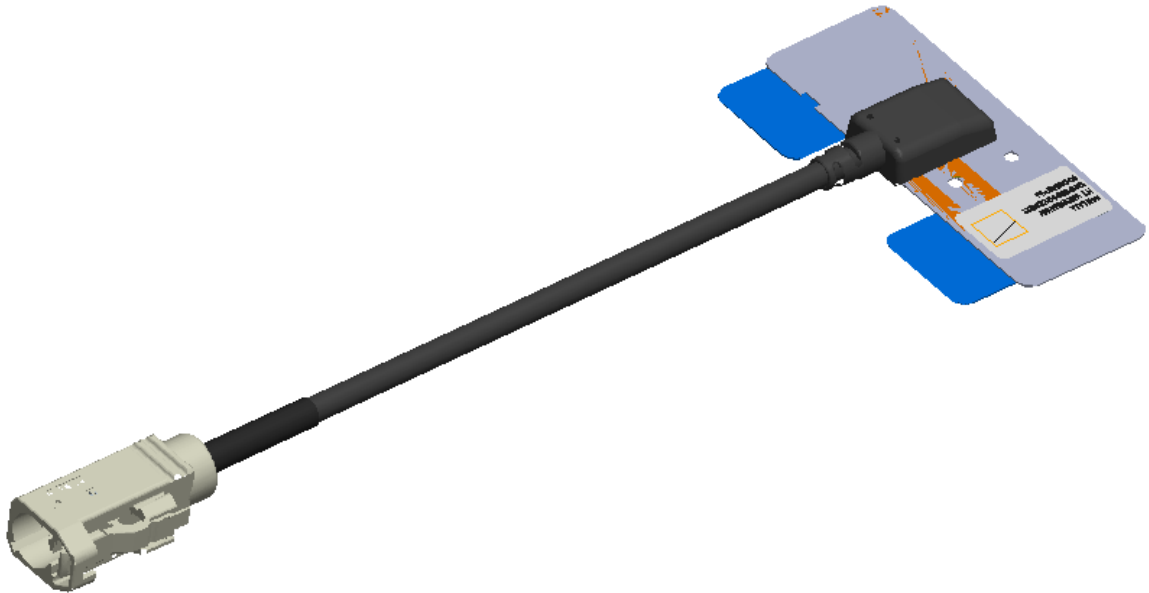
1 Antenna description

The FPC antenna and Cable-harness are soldered and then over-molding.
Antenna mounted to customer side by foam tape (3M VHB5952).

1.1 Part number

Customer P/N: P11-J67E00-02;
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1.2 Antenna pictures



1.3 Product weight

Antenna-Cellular-LH weight: 7.5g.

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2 Electrical Performance

2.1 General test condition

- Temperature: 18 ~ 28 °C
- Humidity: 30% ~ 70% RH

2.2 Resistance testing parameter

- 10+/-1KΩ

2.3 Setup of RF performance test

The diagram of RF performance test is shown in Figure 1

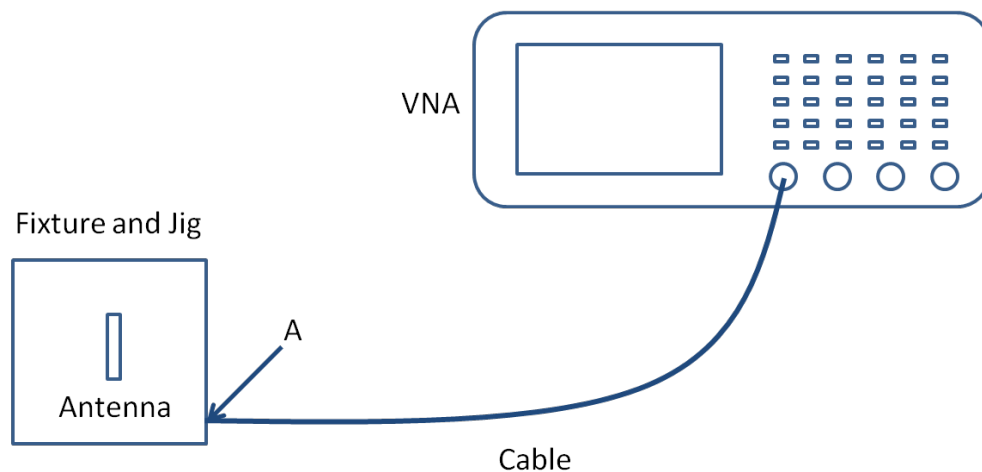


Figure 1: The diagram of RF performance test

Note:

- The cable is calibrated at the position A before the RF test.
- The frequency range of the VNA is restricted from 2 to 8GHz.

2.4 Antenna type

Frequency (MHz)	2400 (MHz) --2485 (MHz) ; 5150 (MHz) --5850 (MHz)
Antenna type	FPC
Polarization	Linear polarization

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2.5 Antenna performance—peak gain

The peak gain of golden are shown in table 1

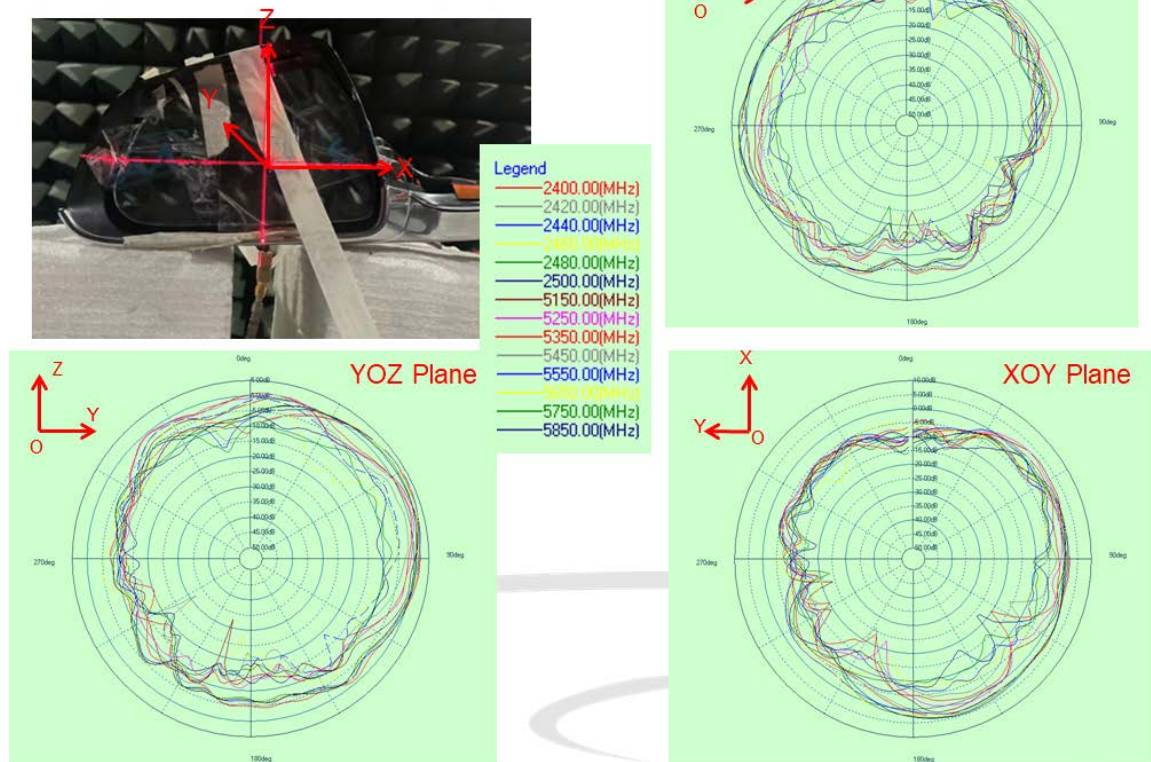
Frequency (MHz)	Peak Gain (dBi)
2400	3.1
2420	3.0
2440	2.8
2460	2.9
2480	3.0
2500	3.5
5150	1.5
5250	2.2
5350	3.1
5450	3.3
5550	3.6
5650	3.8
5750	4.1
5850	4.3

Table 1 peak gain

2.6 Antenna performance— Radiation pattern

The radiation pattern of golden is shown in picture.

Radiation Pattern (WIFI-left):



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2.7 Limit spec

The golden frequency at selecting value of S11 and limit spec are presented in Table 2.

Antenna Type	Begin Frequency (MHz)	End Frequency (MHz)	Limit(dB)
Wi-Fi antenna(S11)	2591	2641	<-6.8dB
	2667	2717	<-6.9dB
	5581	5631	<-8.1dB
	7330	7380	<-2.7dB

Table 2 limit spec

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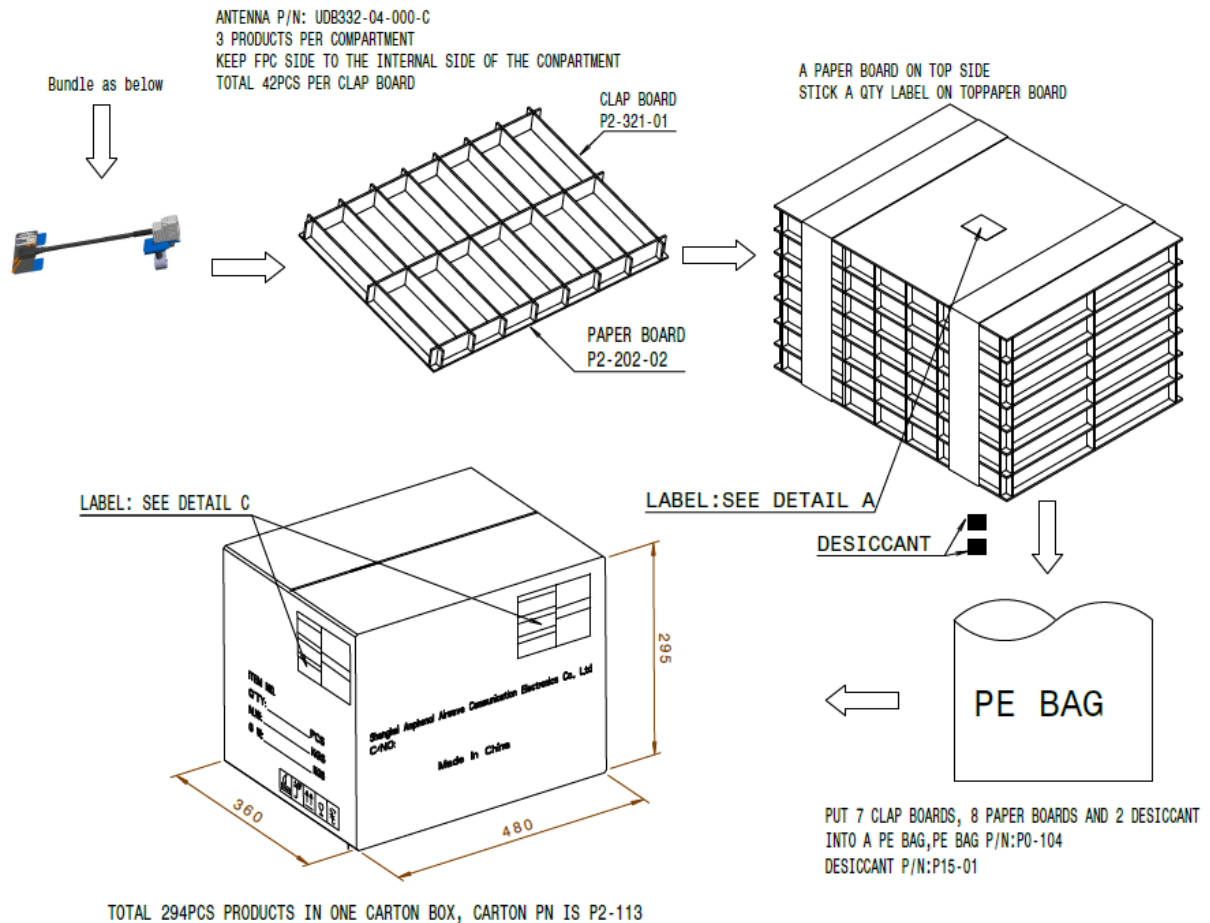
4 Cosmetic specification

Cosmetic requirement see: SAA/Q-S07-01.

5 Package

Use corrugated board for package, 6pcs/compartment, 14 compartments/clap board, 7 clap boards/box, total 588pcs/box.

Package in detail:



6 Storage

Storage temperature range: -40℃~+95℃.

Recommended storage condition:

- Temperature: +10℃~+30℃;
- Humidity: 30%~70% RH.

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