



# Amphenol

## 天线规格承认书

### Antenna Specification Approval Sheet

客户 customer	Qisda Corporation
项目 Project	Whitesand (VP8810)
品名 Antenna	Mid Frame
客户料号 Customer P/N	TY.2ECU0.009
SAA 料号 SAA P/N	TJD866-16-000-R
图纸号 Drawing NO.	TJD866-16-000-R
图纸版本号 Drawing Rev.	DVT
日期 date	2022-01-06

内部签字栏 SAA signature					
ME	PE	QE	RF	PM	Check by
Jachi Zou	Jiangdong Wu	Blair Lu	Yangfei Jiao	Stephen Lei	Bruce Tang

客户签字栏 Customer approval		
Approval by	Approval by	Approval by

公司地址: 上海闵行区莘庄工业区申南路689号  
Address: No.689 Shen Nan Road, Xin Zhuang Industry Park, Shanghai 201108 P.R.China  
Tel: +86 21 61255925

## Revision History

Date	Revision	Description of Changes
2021-01-06	A	Initial approve sheet for antenna

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## 1 Antenna Description

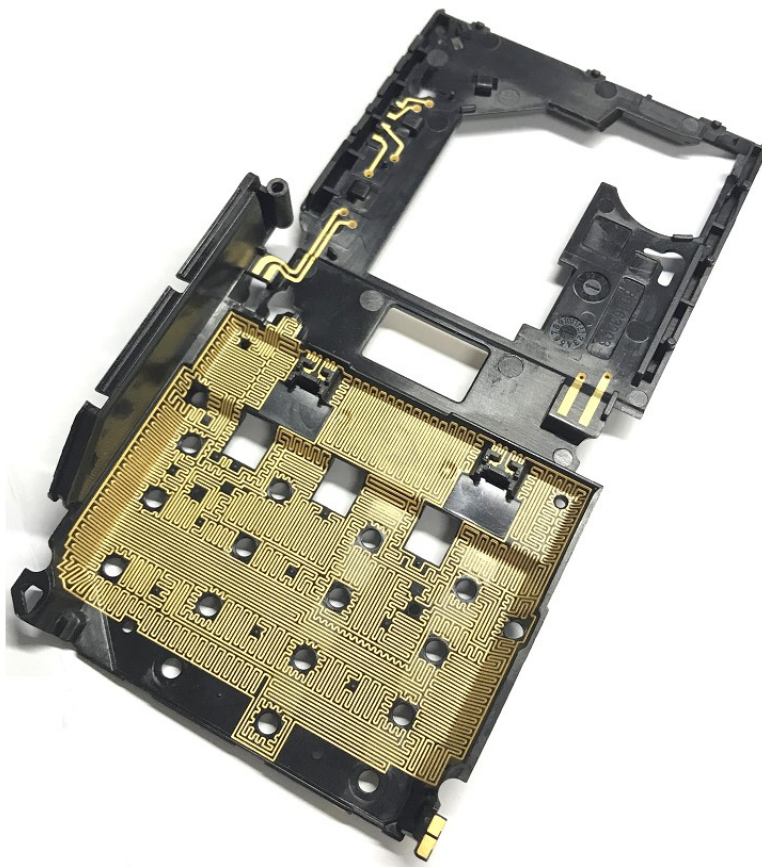
The production and manufacturing of this antenna is accordance with the requirements of ID-TECH's Technical Standard.

### 1.1 Components/Part number

SAA P/N: TJD866-16-000-R

Qisda P/N: TY.2ECU0.009

### 1.2 Antenna picture



Antenna picture

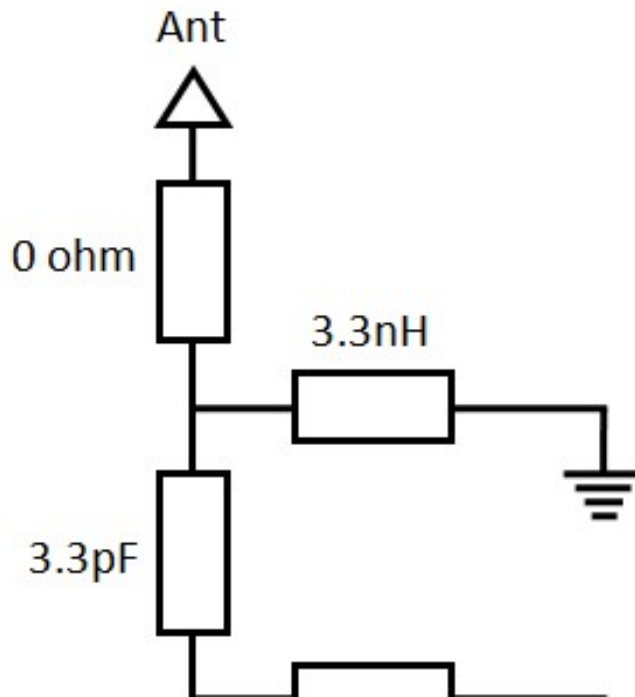




### 3 ELECTRICAL PROPERTIES

#### 3.1 Matching Circuit Description

Matching Circuit for WiFi Antenna:



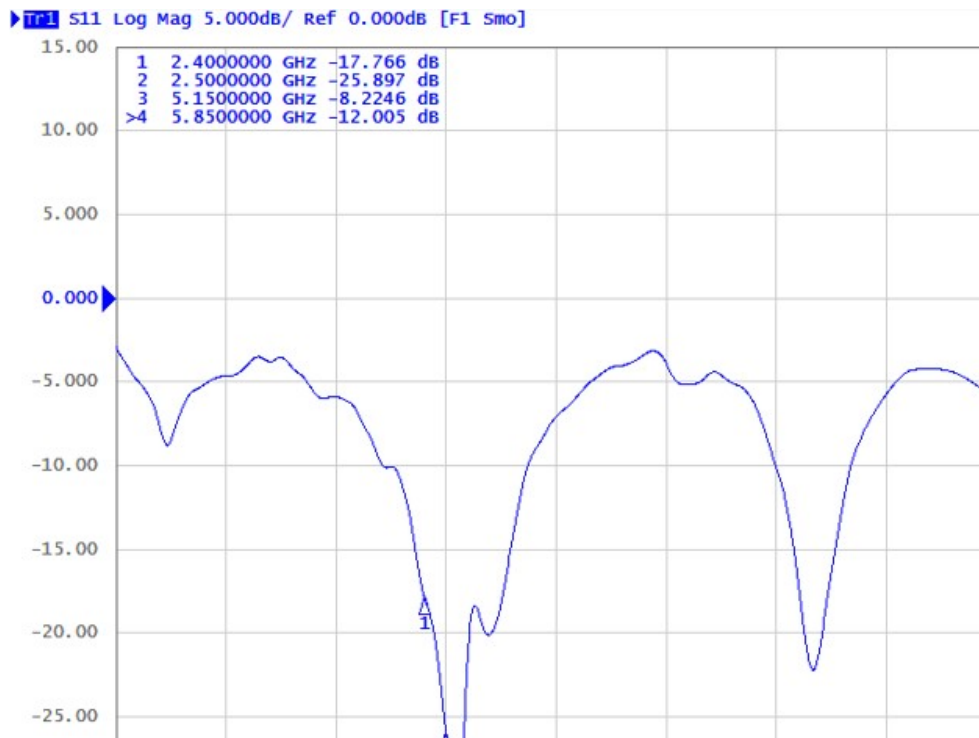
#### 3.2 Frequency Range

NFC Antenna: 13.56MHz

WiFi Antenna: 2.4-2.5GHz & 5.15-5.85GHz

#### 3.3 Return Loss

WiFi Antenna:



### 3.4 Efficiency

WiFi Antenna:

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Peak Gain (dBi)
2400	26%	-5.9	-2.2
2420	27%	-5.6	-2.3
2440	27%	-5.6	-2.0
2460	27%	-5.8	-2.3
2480	25%	-6.1	-2.7
2500	24%	-6.2	-3.0
5150	27%	-5.7	-1.8
5200	27%	-5.6	-2.2
5250	28%	-5.5	-2.3
5300	32%	-4.9	-2.0
5350	32%	-5	-1.8
5400	30%	-5.2	-1.9
5450	30%	-5.2	-1.7
5500	32%	-4.9	-1.6
5550	34%	-4.7	-1.5
5600	37%	-4.3	-1.3
5650	37%	-4.3	-1.4
5700	37%	-4.4	-1.2
5750	32%	-4.9	-1.5
5800	33%	-4.8	-1.3
5850	26%	-5.8	-2.0

## 4 PHYSICAL PROPERTIES

### 4.1 Antenna material

Part name	Material/Spec./Size.
LDS plating	Plating Cu 12~18um min, Ni 2~5um, Au 0.05um min.
Mid frame	Sabic LDS/PC DX11355, Black.

### 4.2 Operating temp

-20°C~+50°C

### 4.3 Storage temp

Storage temperature span -20deg~+40deg

\* Recommended storage condition +10deg~+30deg.



