

SPECIFICATION

for

Antenna

Sunnyway Technology (Shenzhen) Co. Ltd

Customer No. Jimilot

Product No. Sunnyway

Author: Peilin Lu Review: Huangxiong

Release Date: 2022.11.19

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1 . Bilateral Confirmation page

1.1 Customer signature

Customer: JimiIot

Seapartment/ post	Sign	Date
Hardware Engineer/ RD		
Mechanical/ MD		
Project Manager/ PM		
Commercial/ Puchasing		
Checker		

1.2 Signature of Sunnyway Technology company

Seapartment/ post	Sign	Date
Antenna Engineer/ RD		
Mechanical/ MD		
Project Manager/ PM		
QA		
Checker		

2. General

2.1 Scope of application

This specification is only applicable to Jimi IoT LTE antenna

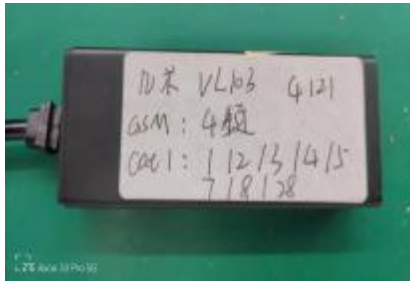
2.2 Operating temperature range

Temperature range of this product: -20 ~ + 65 °C

2.3 Storage temperature range:

This product is stored at - 30 ~ + 75 °C

3. General product specifications

NO.	ITEMS	DETAILS
1	Type	FPC
2	Operating Frequency Band	BT 2.4G
3	VSWR	≤2.5
4	Max. Gain	1.33dBi
5	Radiation Efficiency	≥40%
6	Impedance	50Ω
7	Antenna Type	PIFA
8	Antenna composition	N/A
9	Entity Picture	 <p>The image shows a small, rectangular antenna component with a white label. The label contains handwritten text: 'D. 米 VL03 4121', 'GSM: 4频', 'CAG: 1 12/13/14/15', and '718138'. The component is mounted on a green PCB. A small logo and text 'LTE new IP Pro 3G' are visible at the bottom left of the component.</p>

4 . Specification Detials

4 . 1 Mechanical Properties

4.11 Product Composition;

No.	Material	Size (MM)
1	FPC	50*12*12 Thick 0.3mm

4.12 Apperance

Good appearance without scars 、 dirt 、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Refer to product drawings:

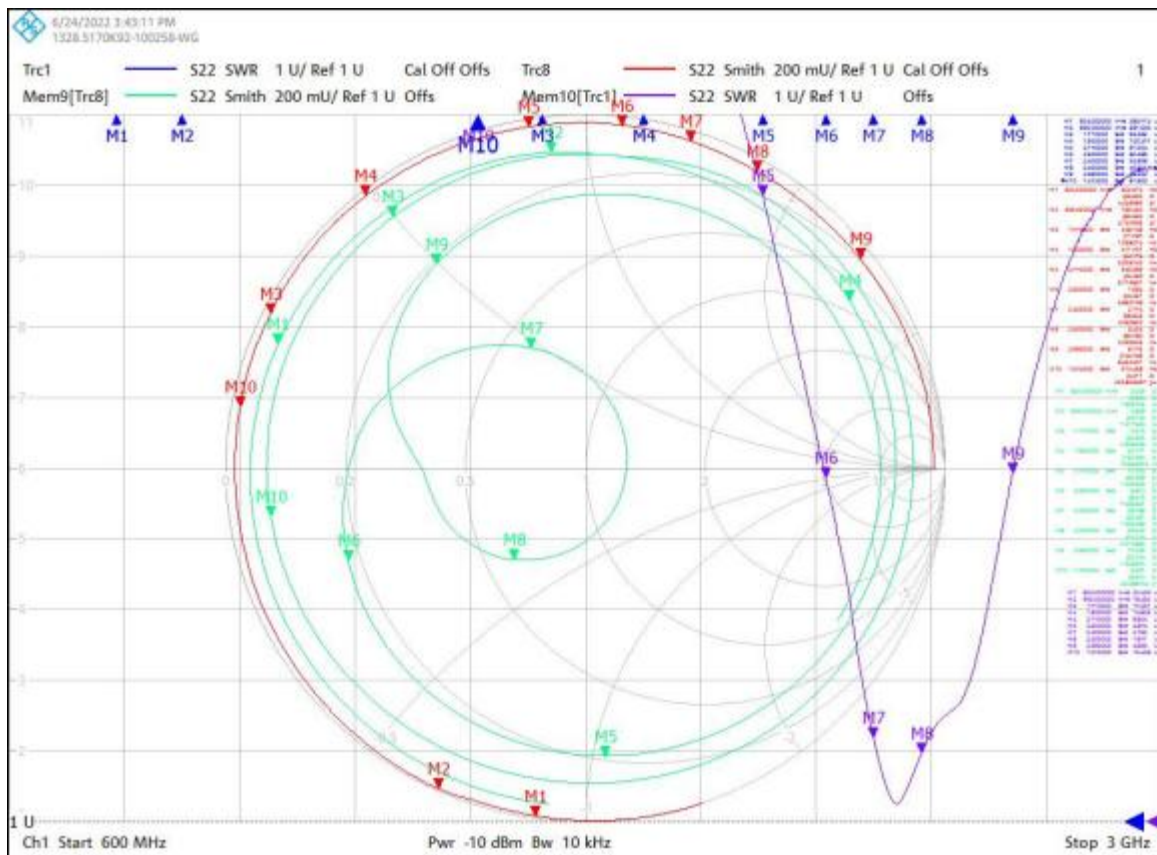
4.2 Electric Performance

Environment:		Equipment:	
Temperature:	10°C——+30°C	Network Analyzer:	Agilent E8358A
Humidity:	≤ 80% (+40°C)	Anechior Chamber:	ETS
Atmospher:	750mmkg±30mmkg		

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

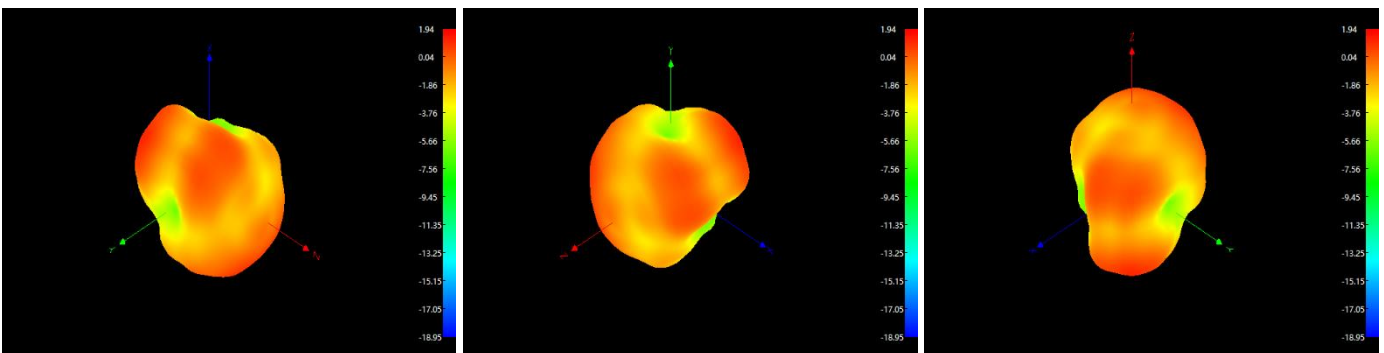
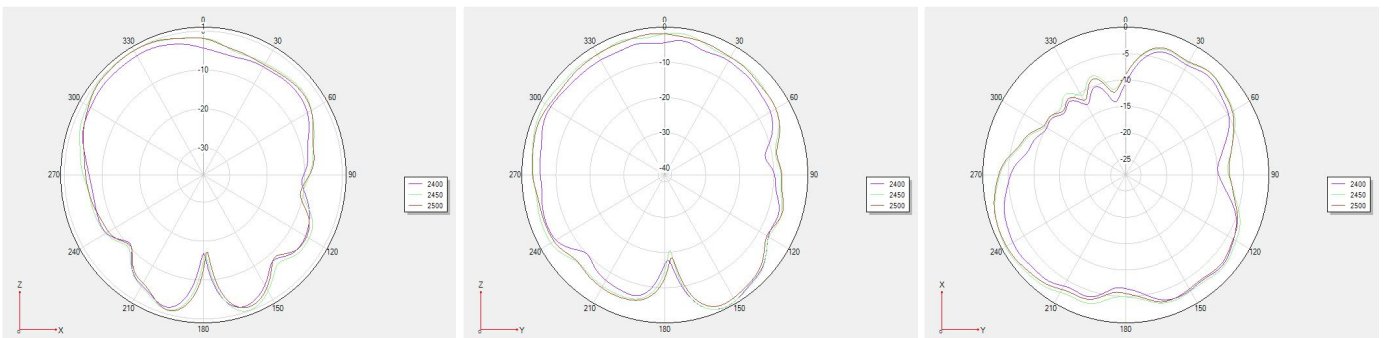
Maker	2400	2500
VSWR	2.4	2



4.22.2 Passive gain efficiency :

Frequency/ Mhz	Efficiency / %	MaxGain/ dBi
2400	39.17	0.93
2410	40.09	1.19
2420	42.85	1.09
2430	43.25	1.33
2440	43.55	0.84
2450	43.85	1.09
2460	41.59	0.58
2470	42.85	1.14
2480	41.11	0.81
2490	39.99	0.97
2500	37.15	0.67

4.22.3 Radiation pattern:



5. Product

Manner of packing:

Packed in self sealed bags, 200 pcs each.

6. Document

Document No.	
Release Date	2022/11/ 19
Author	Peilin Lu
Review	Huangxiong

Revised History

Date	Version	Revised Record
2022/ 11/ 19	1.00	New Project