



n Guang Huitong PCB Antenna specification
acknowledgment

Product Specifications for Approval

The item number: PCB1817B-B45L-A

Customer name: Jin Guang Huitong

Model:

Antenna Band:

Version: R-A

Date of production:

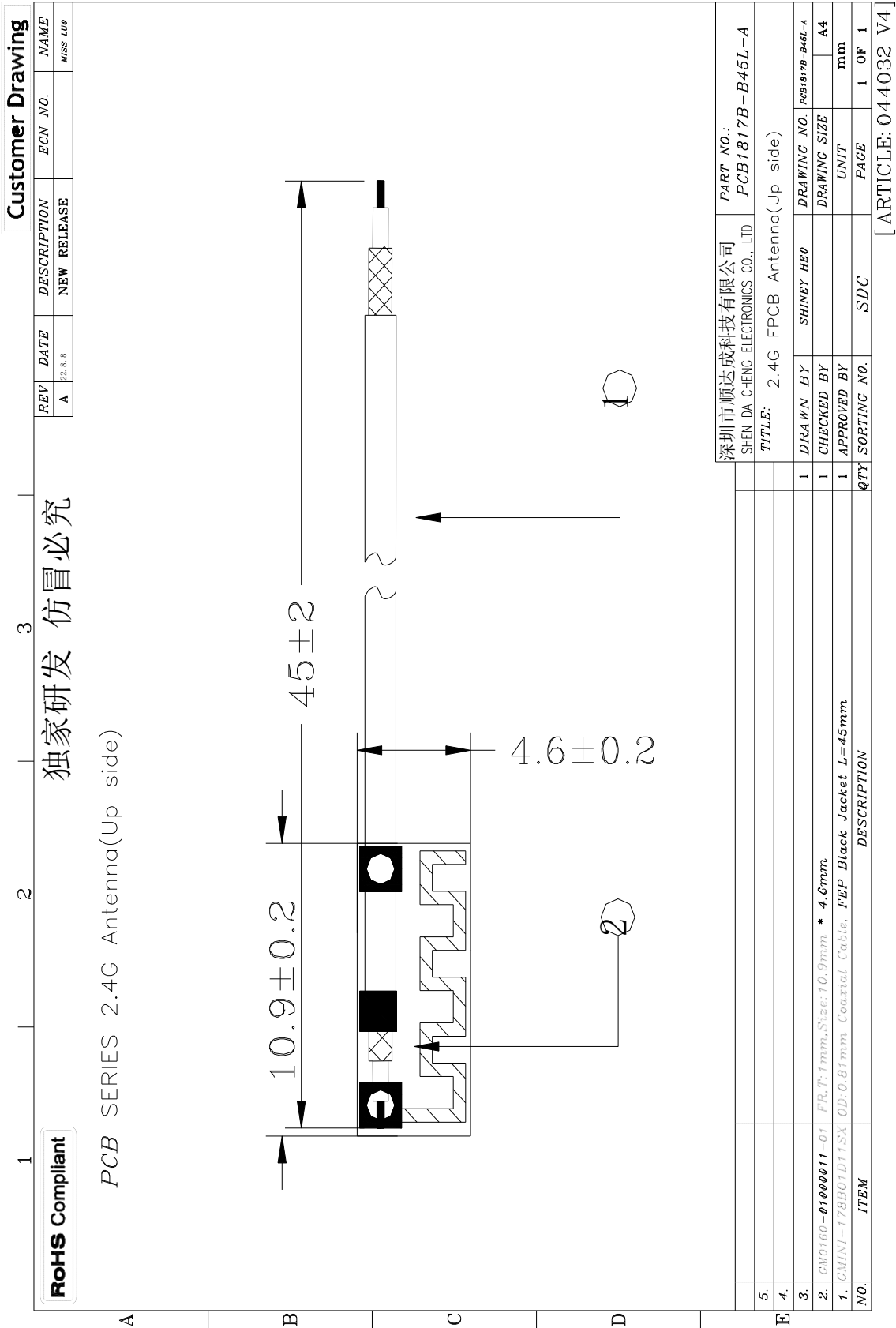
2024.03.29

<p>Shunda Technology Co., Ltd. research and development</p>			
Structure:	Nathan Chen	Rf:	Yang Yonghui
Audit:	Zeng Liwen	Approve:	Chen Huaming
<p>Customer confirmation</p>			
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1. Project information and Electrical Specification

Those specifications were specially defined for **Jin Guang Huitong PCB**, , and all characteristics were measured under the model's handset testing jig .

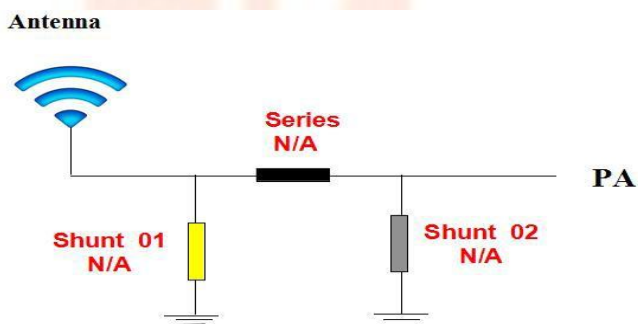
1-1 Antenna picture



1-2 Frequency Band:

Frequency Band	MHz
WIFI2.4G	2400-2500 (MHz)

1-3 Impedance matching



There is no change to the original antenna matching

2.VSWR

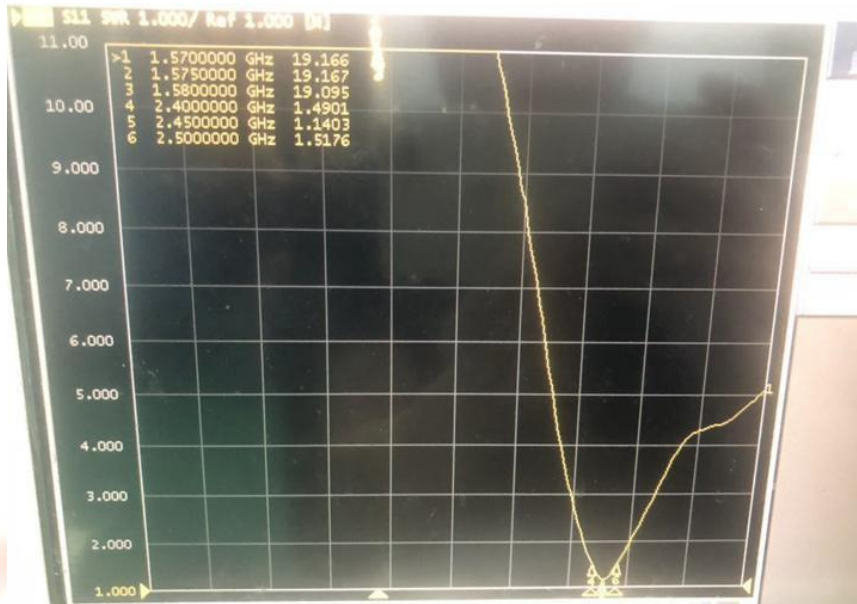
Measuring Method:

1. A 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,
2. Keeping this jig away from metal at least 20cm.

VSWR parameter values

Frequency	2400	2450	2500
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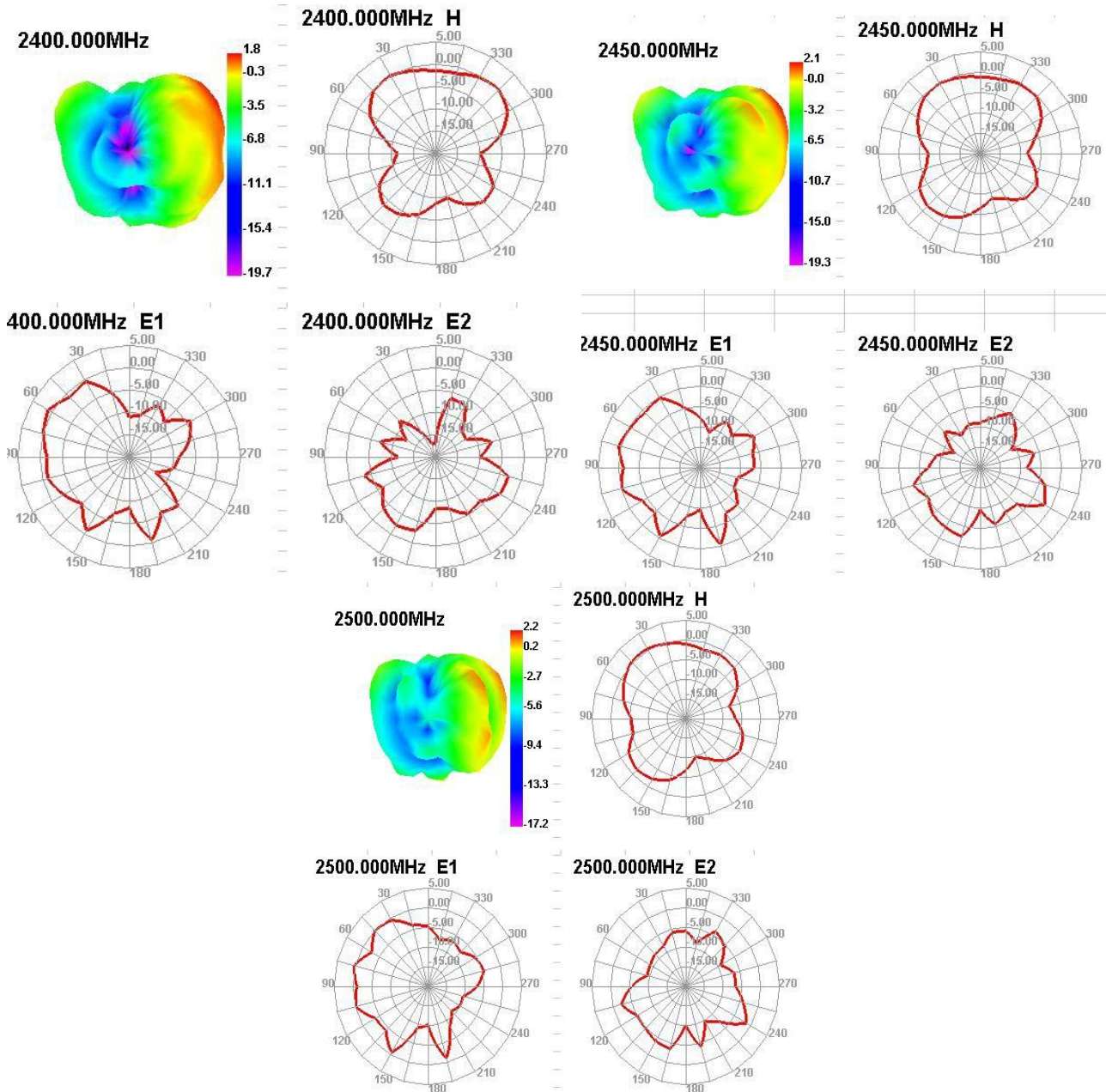
standin	1.49	1.14	1.51
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Passive Test For 2.4G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	43.91	-3.57	1.84	-0.31	22.401	21.511	1.84	-19.67	49.25	48.85
2450	44.86	-3.48	2.13	-0.02	22.886	21.973	2.13	-19.33	49.5	49.28
2500	45.49	-3.42	2.16	0.01	23.63	21.862	2.16	-17.15	49.61	49.52

2400.00MHz - 2500.00MHz Gain

5.00



3. Efficiency and Gain*measuring and test instruments:

Microwave anechoic chamber, Agilent Network Analyzer, Agilent Spectrum Analyzer, 8960 Comprehensive Tester, Standard Antenna

***test method:**

The equipment is fixed in the center of the turntable on the H side, and is on the same horizontal line as the center of the horn antenna.

Efficiency/Gain-WIFI2.4G

4.The production index

When the antenna is mass-produced, the VSWR is used as the mass production test standard. According to the differences in the project

itself, the following criteria are given: