



**BaiKe- BK652 WIFI2.4G antenna acknowledgment  
Product Specifications for Approval**

**The Part number:** WF2396B-A100R-A

The customer name: BaiKe                      Models: BK652

Antenna band: WIFI2.4G

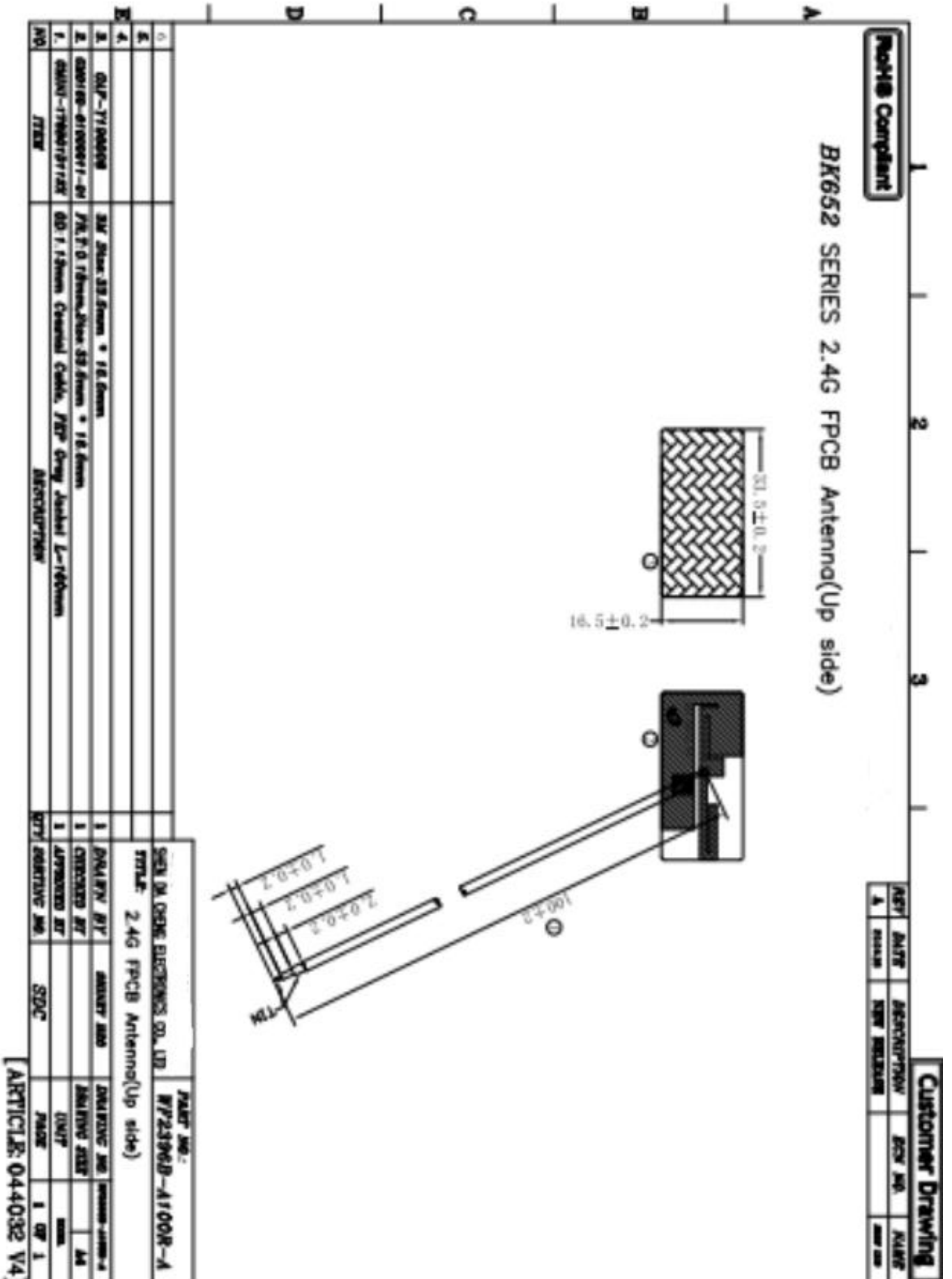
Version: R-A    Date: 2022-9-5

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<b>Customer Confirmation</b>			
<b>Customer audit:</b>		<b>Customer approval:</b>	

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## 1. Project information and Electrical Specification

Those specifications were specially defined for **BaiKe-BK652** , **WIFI2.4G**, and all characteristics were measured under the model's handset testing jig .

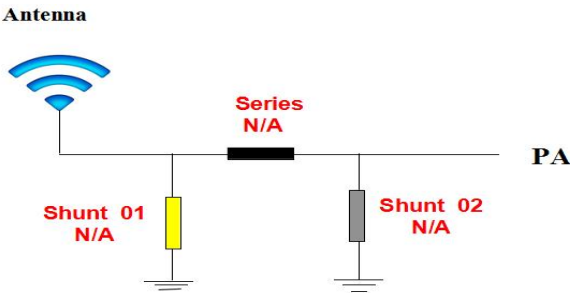
1-1 Antenna picture



1-2 Frequency Band:

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

1-3 Impedance matching



Antenna original match without change

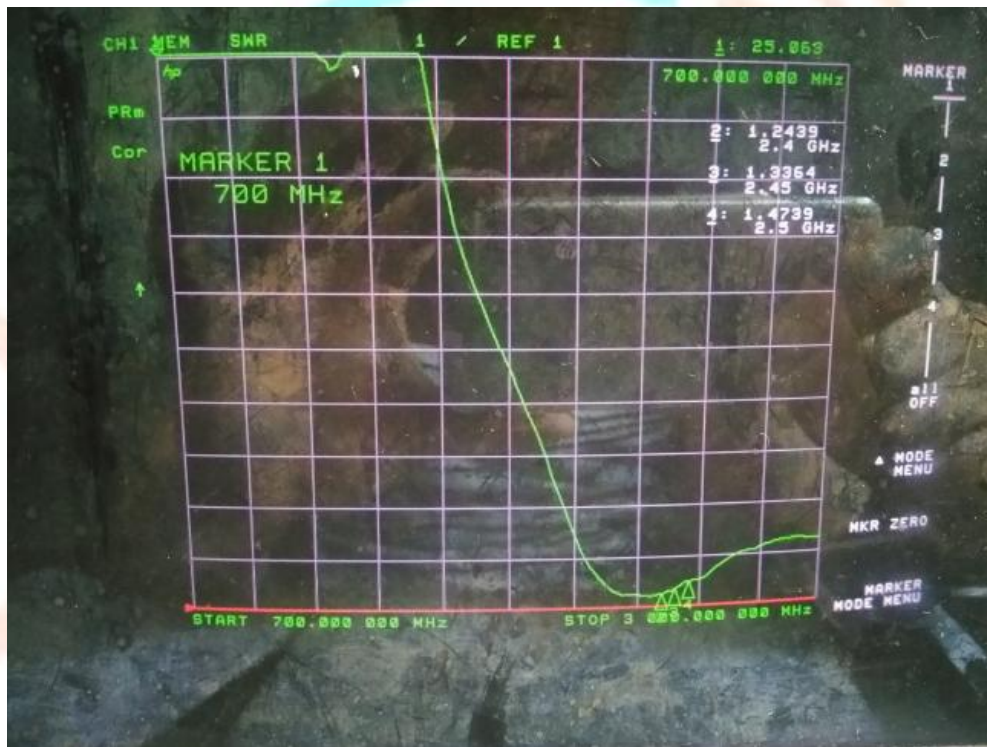
## 2.VSWR

**Measuring Method:**

1. A 50  $\Omega$  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 (MHZ)	2400	2450	2500
Standing wave	1.24	1.33	1.47



**3. Efficiency and Gain\*measuring and test instruments:**

Microwave Darkroom, Agilent Network Analyzer, Agilent Spectrum Analyzer, 8960 Integrated Tester, Standard Antenna

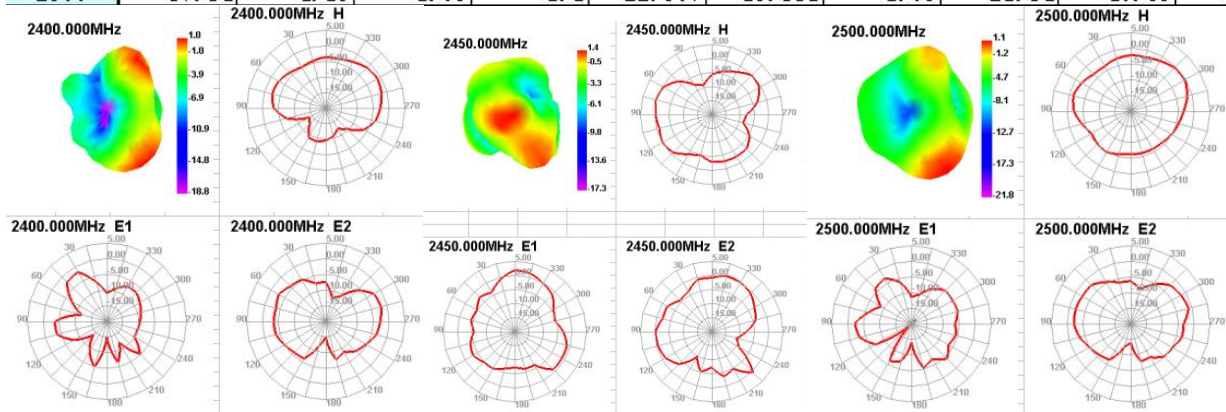
\* Test method:

The equipment is fixed at the center of the turntable in the center of the turntable, with the center of the horn antenna on the same horizontal line.

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Efficiency/Gain-WIFI2.4G

Passive Test For 2.4G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	37.84	-4.71	1	-1.15	20.49	13.34	1	-18.78	48.68	48.28
2450	41.37	-3.07	1.38	-0.79	25.804	23.568	1.38	-17.29	49.65	49.56
2500	37.84	-4.15	1.05	-1.1	22.597	15.831	1.05	-21.84	49.65	49.56



### 4.The production index

Antenna production, the standing wave ratio as a production test standards.

According to the difference between the project itself, given the following criteria:

frequency	Production standards
WIFI2.4G	VSWR (Production products) $<VSWR(\text{Design samples}) \pm 0.5$