Fenghang- H720 WIFI2.4G antenna acknowledgment Product Specifications for Approval

The Part number：WF1084B-A70L-A

The customer name:Fenghang Models：H720

Antenna band：WIFI2.4G

Version: R-A Date： 2023-7-11

Shenzhen ShunDaCheng Technology Co.,Ltd.			
MD：	Huang Zongbao	RF：	Fu Xuerong
Audit:	Xia Chenglei	Approval:	Huaming Chen
Customer Confirmation			
Customer audit：		Customer approval:	

Company address: Floor 4, building B5, xinfu industrial park, chongqing road, fuyong town, baoan district, shenzhen

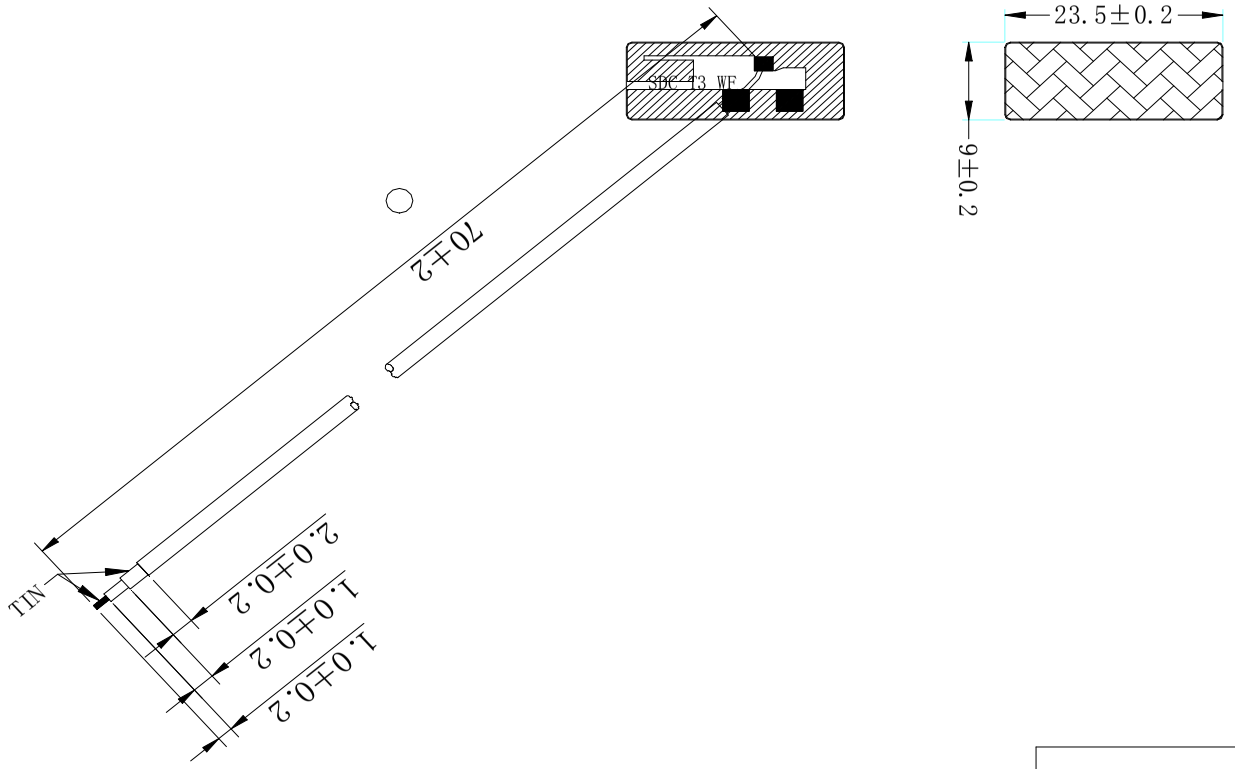
The phone:0755-27211658 **Fax:**0755-29485750

Customer Drawing

RoHS Compliant

REV	DATE	DESCRIPTION	ECN NO.	NAME
A	23.07.11	NEW RELEASE		MISS LUO

T3 SERIES 2.4G FPCB Antenna(Up side)



NO.	ITEM	DESCRIPTION	QTY
5.			
4.	Conductive cloth		
3.	GAF-Y196008	3M Size:23.5mm * 9mm	1
2.	GM0160-01000011-01	FR, T:0.18mm, Size:23.5mm * 9mm	1
1.	GMINI-178B01D11SX	OD:1.13mm Coaxial Cable, FEP Gray Jacket L=70mm	1

SHEN DA CHENG ELECTRONICS CO., LTD

PART NO.: WF1084B-A70L-A

TITLE: 2.4G FPCB Antenna(Up side)

DRAWN BY	SHINEY HEO	DRAWING NO.	WF1084B-A70L-A
CHECKED BY		DRAWING SIZE	A4
APPROVED BY		UNIT	mm
SORTING NO.	SDC	PAGE	1 OF 1

[ARTICLE: 044032 V4]

Shenzhen ShunDaCheng Technology Co.,Ltd.

1. Project information and Electrical Specification

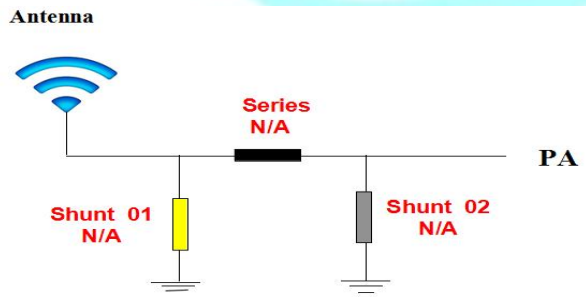
*Those specifications were specially defined for*Fenghang-H720 ，***WIFI2.4G,*** *and all characteristics were measured under the model's handset testing jig .*

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

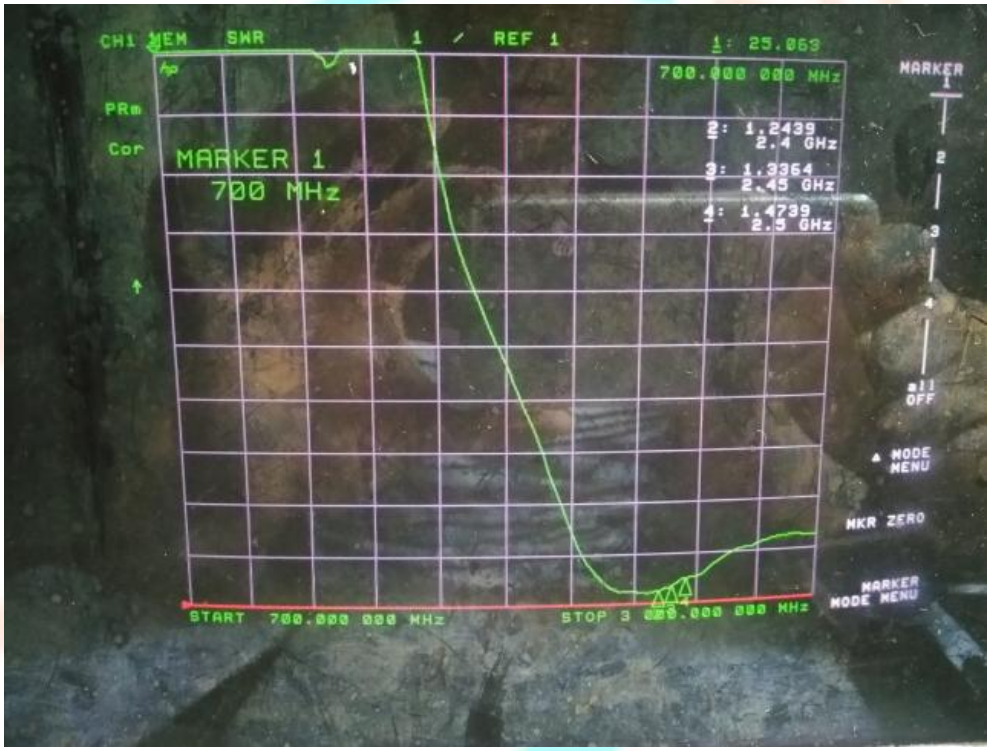
Measuring Method:

1. A 50 Ω 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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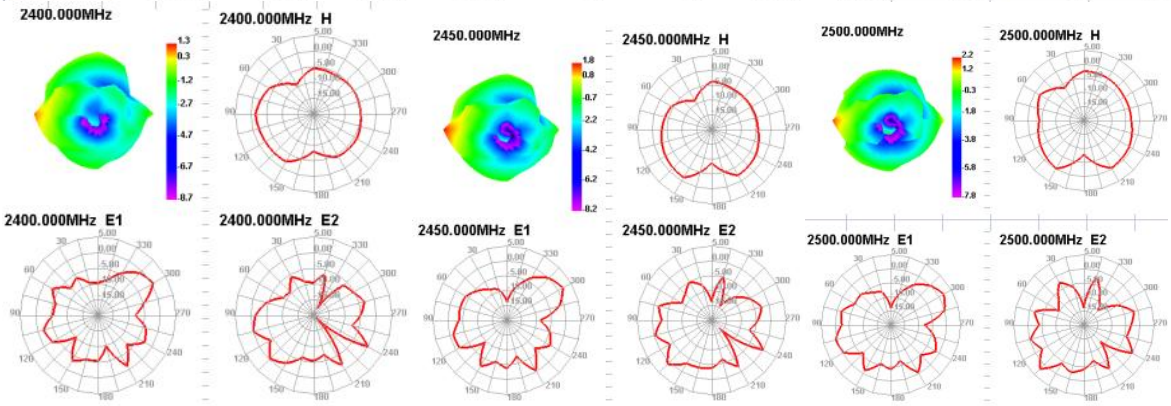
Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	37.32	-4.28	1.29	-0.86	0	0	1.29	-19.52	4.28	15	48.23	48.39
2425	44.49	-3.52	1.96	-0.19	0	0	1.96	-19.01	3.52	15	48.32	48.45
2450	43.36	-3.63	1.8	-0.35	0	0	1.8	-17.47	3.63	15	48.74	48.76
2475	43.96	-3.57	1.65	-0.5	0	0	1.65	-18.06	3.57	30	49.07	49
2500	51.44	-2.89	2.24	0.09	0	0	2.24	-16.81	2.89	30	49.2	49.11



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(Design samples)+/-0.5