

Antenna Specifications

2021/12/27

31259

da hua

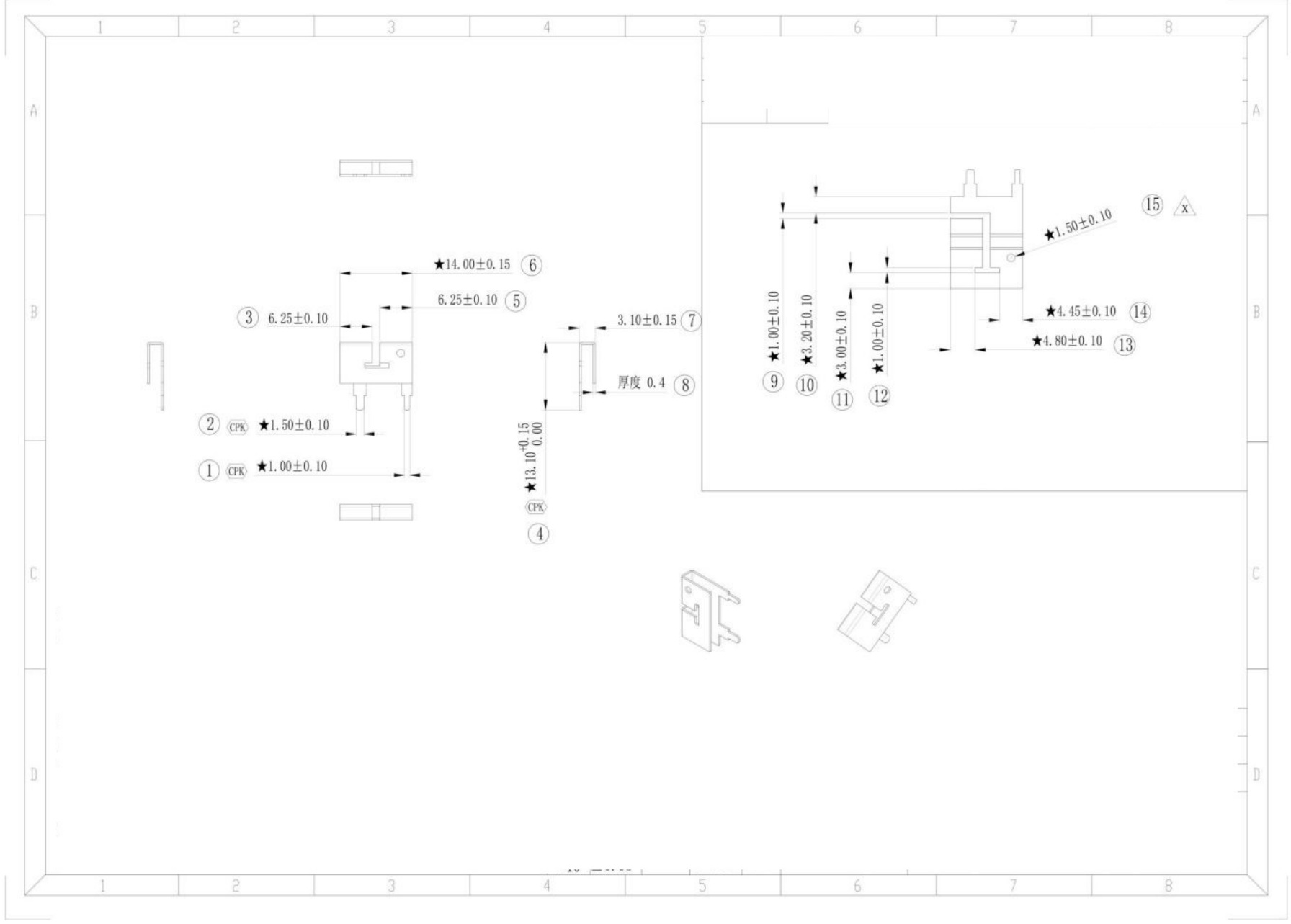
2020-06-11

(1) Description of sample antenna

Description of built-in antenna	
Manufacturer's internal model	F06629306990001
category	Wifi Antenna
Frequency band	2400~2500MHz
form	Shrapnel
polarization	Linear polarization
standing wave	1.25
efficiency	> 45 %
Antenna gain	3.91dBi
Pattern	See 4.35
Joint type	No joint
Connector Properties	No joint
Active/Passive	Passive
Antenna size	14*13.1*3.1 (mm) Including appearance structure drawings
Feeder type and size	No exposed feeder
feeder loss	No exposed feeder
working temperature	-40~85y
Power capacity	/
High and low temperature	-40~85y
Application clearance area	/
remarks	

(2) Key Material Description

F06629306990001_Shrapnel_Built in antennam



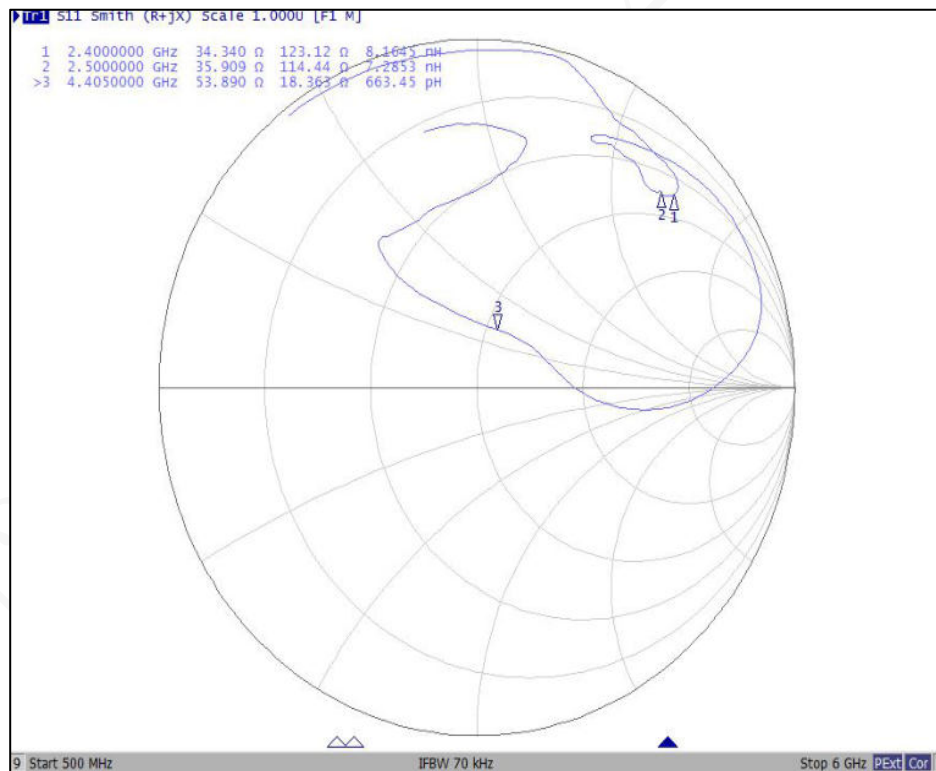
(3) Sample antenna diagram

(4) Test report

4.1 Picture of antenna:



4.2 passive Smith chart



4.3 Efficiency gain:

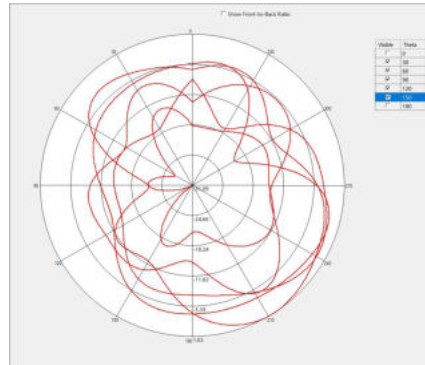
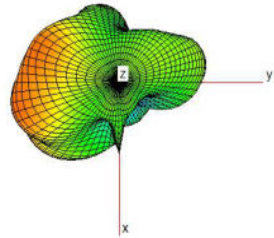
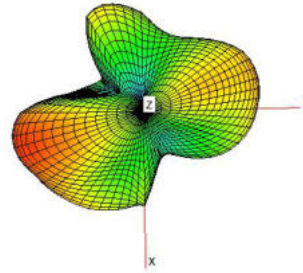
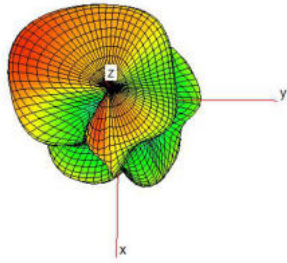
Frequency (MHz)	Efficiency (dBm)	Gain (dBi)	Efficiency (%)
2400.0	-1.87	3.91	65.8
2410.0	-3.03	1.93	49.71
2420.0	-2.5	2.2	56.12
2430.0	-2.65	1.89	54.39
2440.0	-2.29	1.54	58.97
2450.0	-2.29	1.65	59.02
2460.0	-2.3	2.59	58.88
2470.0	-2.01	2.85	62.04
2480.0	-1.63	3.23	68.76
2490.0	-1.86	3.13	65.1
2500.0	-1.47	3.49	71.24

4.34 Standing wave ratio, return loss:

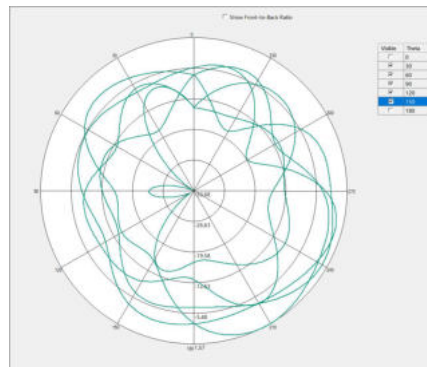
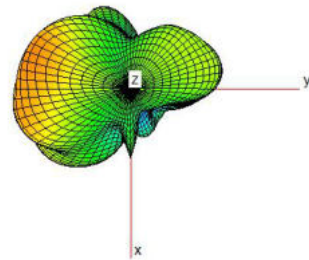
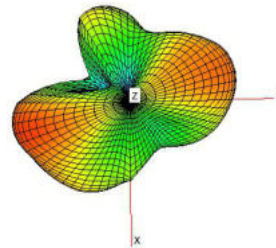
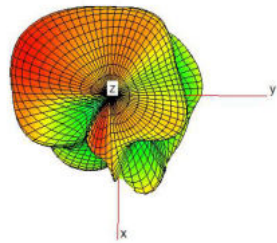
Frequency (MHz)	SWR standing wave	S11 Return loss
2400	1.12	-29.04
2450	1.28	-16.12
2500	1.36	-13.28

4.35 Pattern:

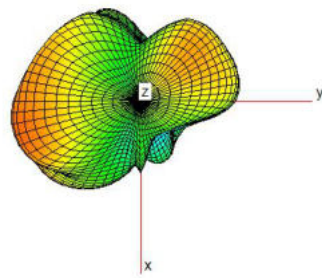
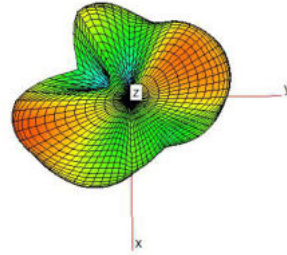
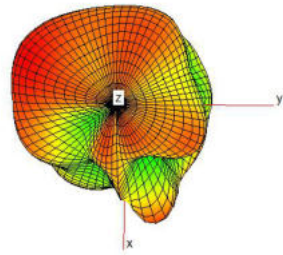
2400 (Mhz)



2450 (Mhz)



Pattern: 2500 (Mhz) :



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