

Shenzhen Xuhang Communication Technology Co., Ltd

CUSTOMER	
CUSTOMER NO.	RT6710-ATMGC06-V5.0
PART NAME	WIFI LAN
SUPPLIER NO.	XH230063 (L=82mm)

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

DESIGN	CHECK	APPROVAL
Luo	Robert	SHANG

Date:September 7, 2023

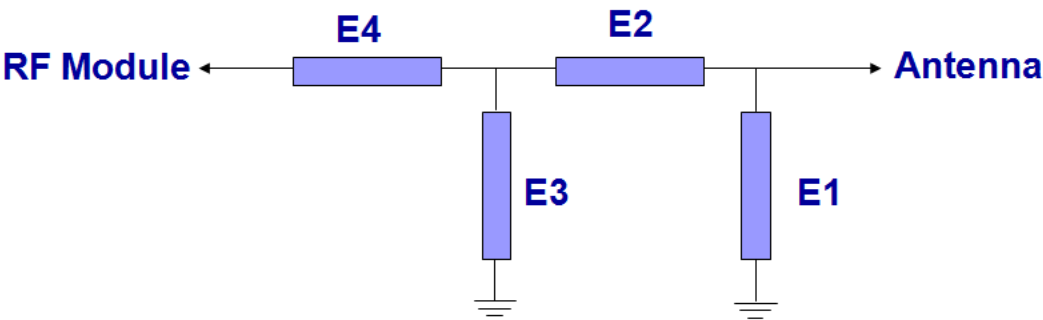
DIRECTORY

[illegible]

TEST REPORTS

Frequency	WIFI(2400~2500MHz;5150~5850MHz)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 2.0
Return Loss	-10dB Max
Radiation	Omni-directional
Gain(Peak)	4.72dBi
Polarization	Linear,Vertical
Admitted Power	1W
Connector	I-PEX I
Physical Properties	
Antenna Material	FPC
Cable Type	O.D.0.81mm
Operating Temp.	-10-+60℃
Storage Temp.	-10-+70℃
Cable Color	Black

Matching Circuits



Element	Value	Vender
E1(0402)		
E2(0402)	0Ω	
E3(0402)		
E4(0402)	0Ω	

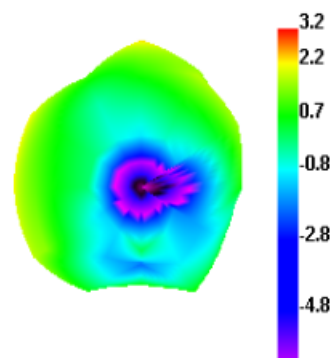
The original matching circuit has not been modified

DRAWING

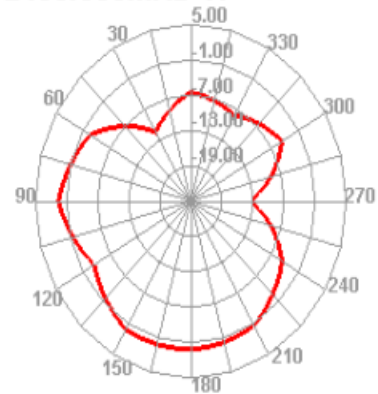
Freq (MHz)	Effi (%)	Gain (dBi)
2400	57.05	3.58
2410	58.95	3.84
2420	62.94	3.97
2430	62.4	4.72
2440	63.06	4.42
2450	62.51	3.59
2460	59.15	3.42
2470	59.47	3.4

Freq (MHz)	Effi (%)	Gain (dBi)
5150	44.67	2.18
5550	53.92	3.72
5850	52.64	2.75

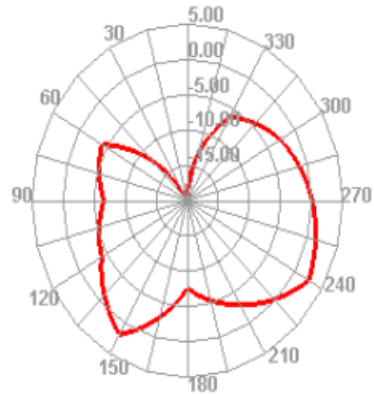
2400.000MHz



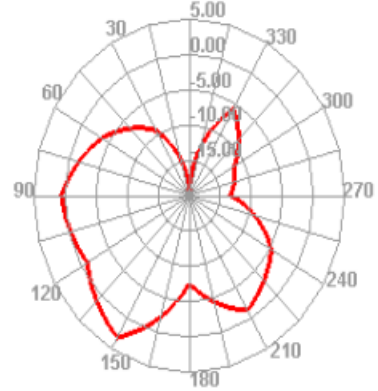
2400.000MHz H



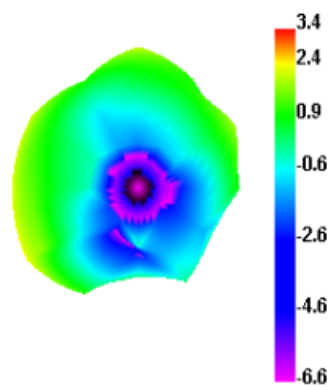
2400.000MHz E1



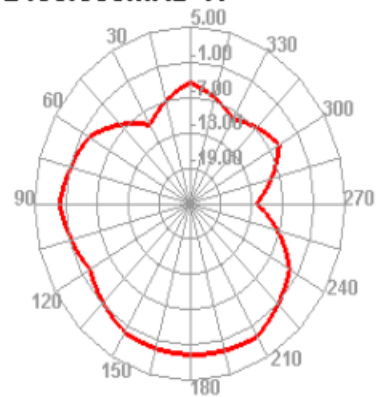
2400.000MHz E2



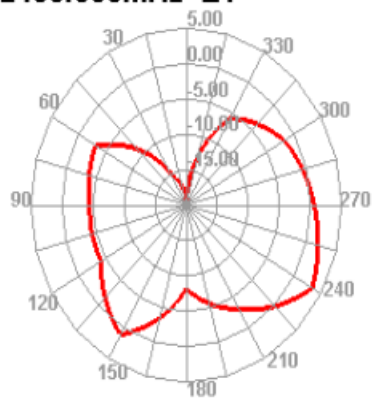
2450.000MHz



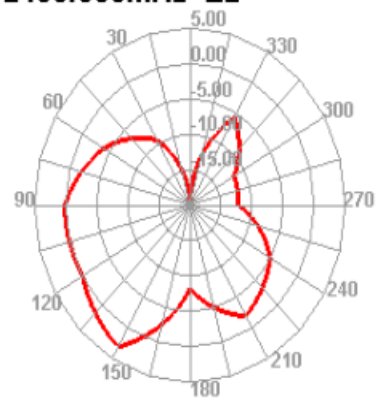
2450.000MHz H



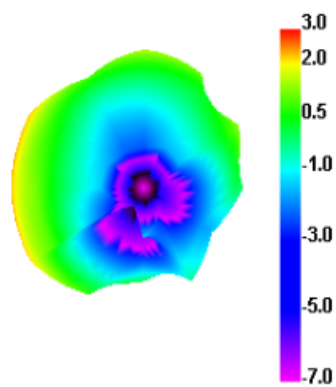
2450.000MHz E1



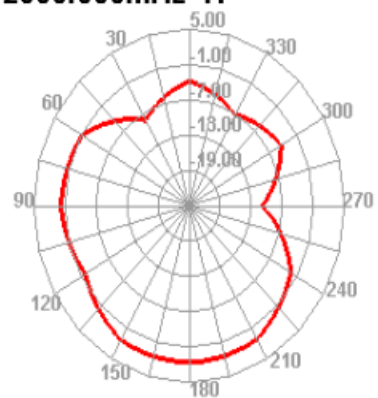
2450.000MHz E2



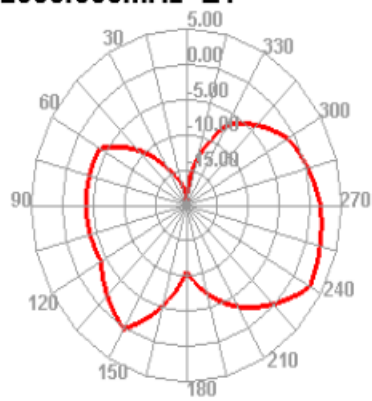
2500.000MHz



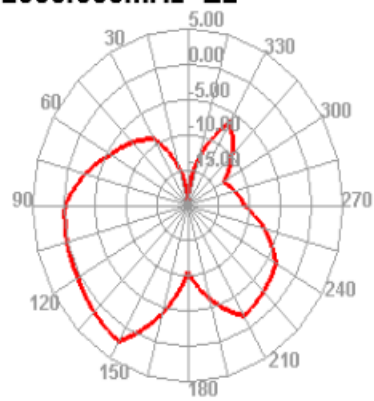
2500.000MHz H



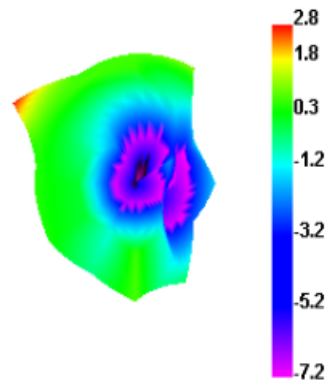
2500.000MHz E1



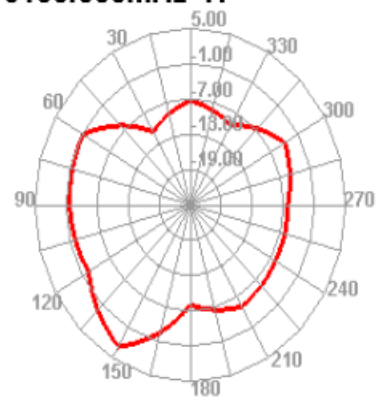
2500.000MHz E2



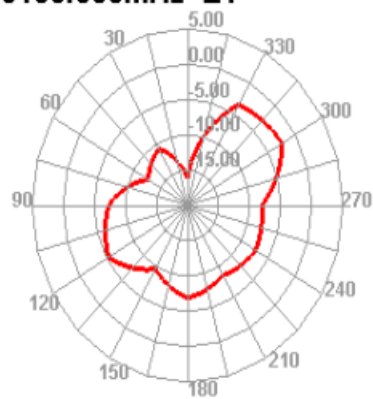
5150.000MHz



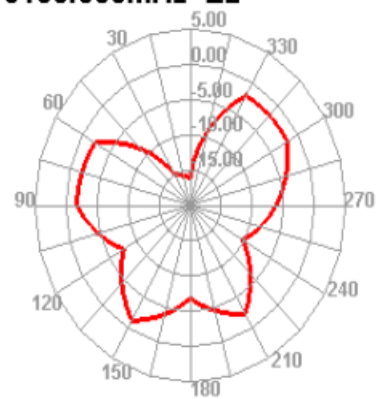
5150.000MHz H



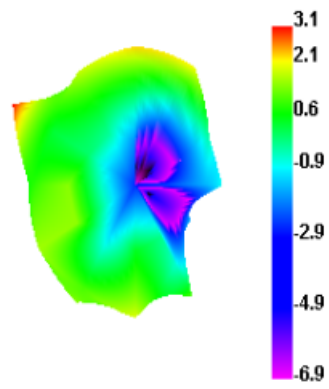
5150.000MHz E1



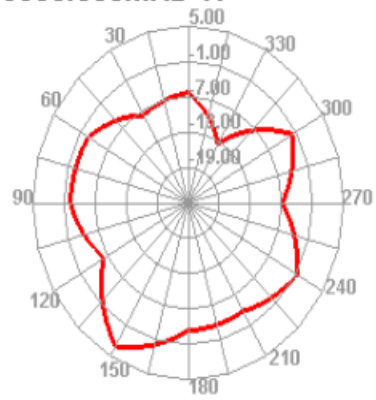
5150.000MHz E2



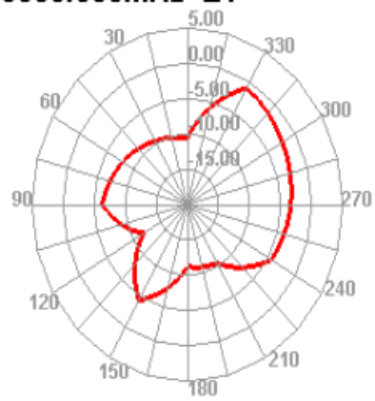
5500.000MHz



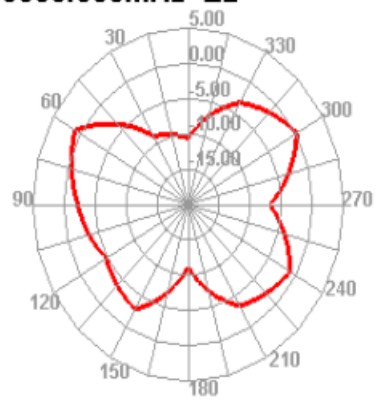
5500.000MHz H



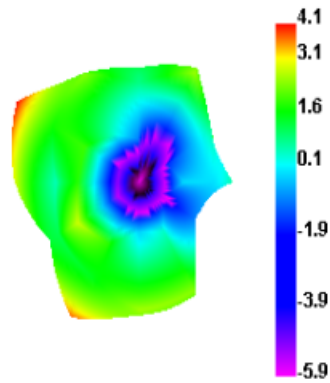
5500.000MHz E1



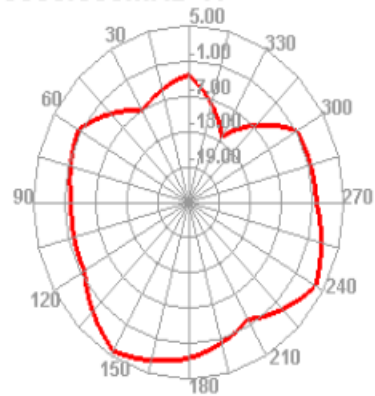
5500.000MHz E2



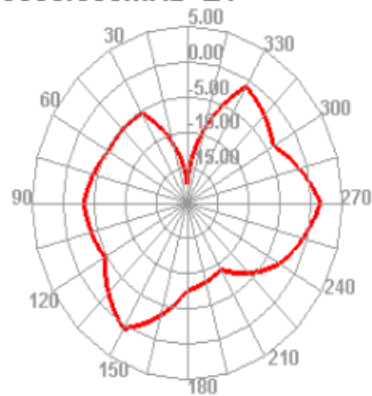
5850.000MHz



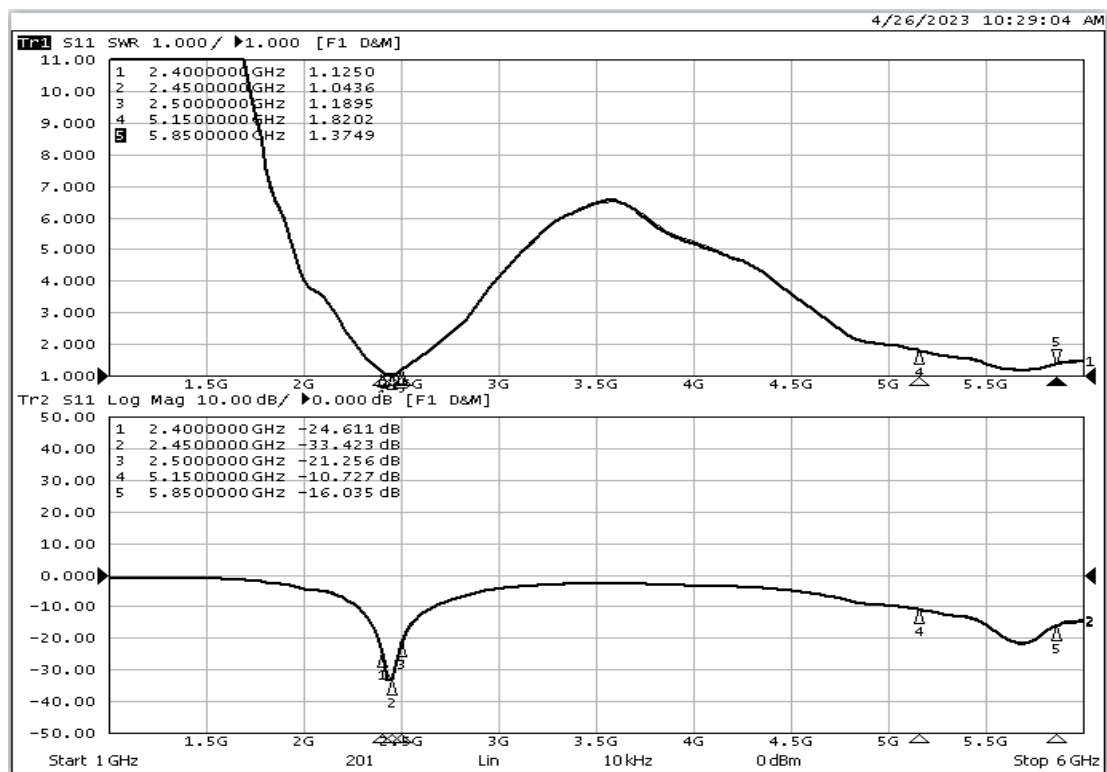
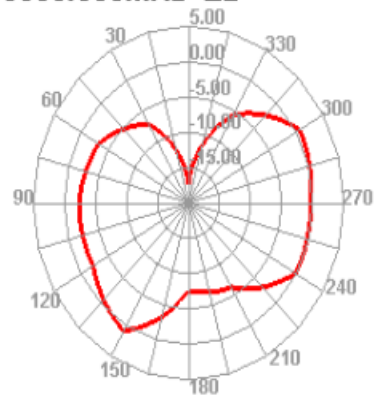
5850.000MHz H



5850.000MHz E1



5850.000MHz E2





Application Information					
O4Version		5.256.357			
TotalTime		6m 59s 335ms			
AdditionalInfor		802.11b : 11Mbps			
Test	Wifi 2G TRP			Test	ifi 2G TIS
Result	1	6	11	Result	11
Frequency (MHz)	2412	2437	2462	Frequency (MHz)	2462
Txp Ave(dBm)	15.96	15.96	15.99	Sens Ave(dBm)	-81.26

Application Information					
O4Version		5.256.357			
TotalTime		5m 4s 158ms			
AdditionalInfor		802.11g : 54Mbps			
Test	Wifi 2G TRP			Test	ifi 2G TIS
Result	1	6	11	Result	11
Frequency (MHz)	2412	2437	2462	Frequency (MHz)	2462
Txp Ave(dBm)	14.49	15.06	15.76	Sens Ave(dBm)	-69.34

Application Information					
O4Version		5.256.357			
TotalTime		5m 6s 607ms			
AdditionalInfor		802.11n : MCS7			
Test	Wifi 2G TRP			Test	ifi 2G TIS
Result	1	6	11	Result	11
Frequency (MHz)	2412	2437	2462	Frequency (MHz)	2462
Txp Ave(dBm)	15.32	15.89	14.23	Sens Ave(dBm)	-68.39

Application Information					
O4Version		5.256.357			
TotalTime		7m 14s 711ms			
AdditionalInfor		802.11a : 54Mbps			
Test	Wifi 5G TRP			Test	ifi 5G TIS
Result	36	116	161	Result	161
Frequency (MHz)	5180	5580	5805	Frequency (MHz)	5805
Txp Ave(dBm)	15.13	14.26	16.16	Sens Ave(dBm)	-76.25

Antenna assembly position

