

Shenzhen Xiangboyi Technology Co. Ltd

Specification

Customer	Shenzhen Harvilon Technology Co.,Ltd.
Name	MF833-AF
Model No	XBY210629

Shenzhen Xiangboyi Technology Co. Ltd

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R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park,
No. 95,

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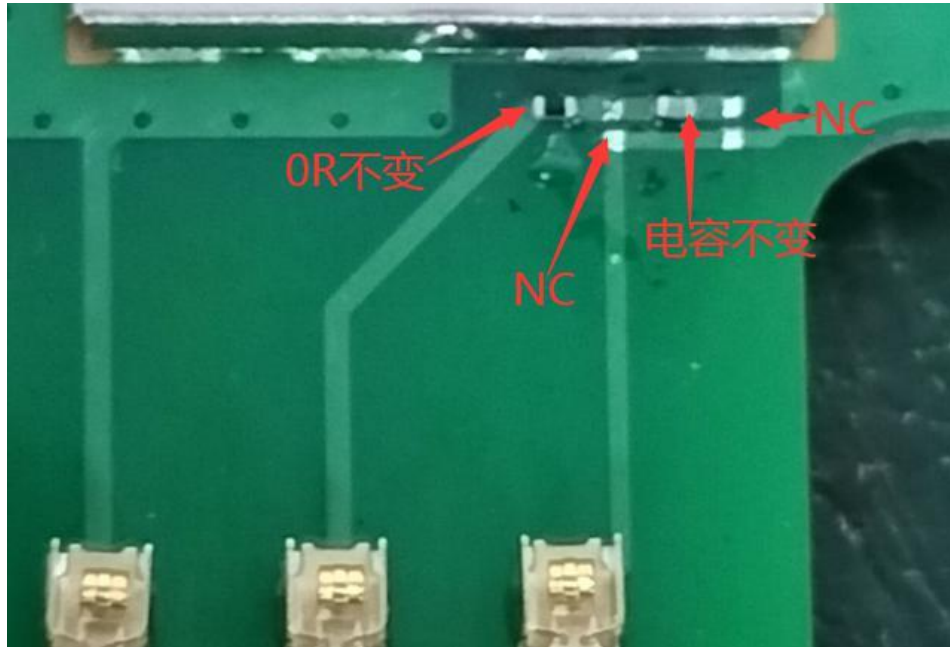
Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138
Industrial

Zone, Tangxia Town, Dongguan City.

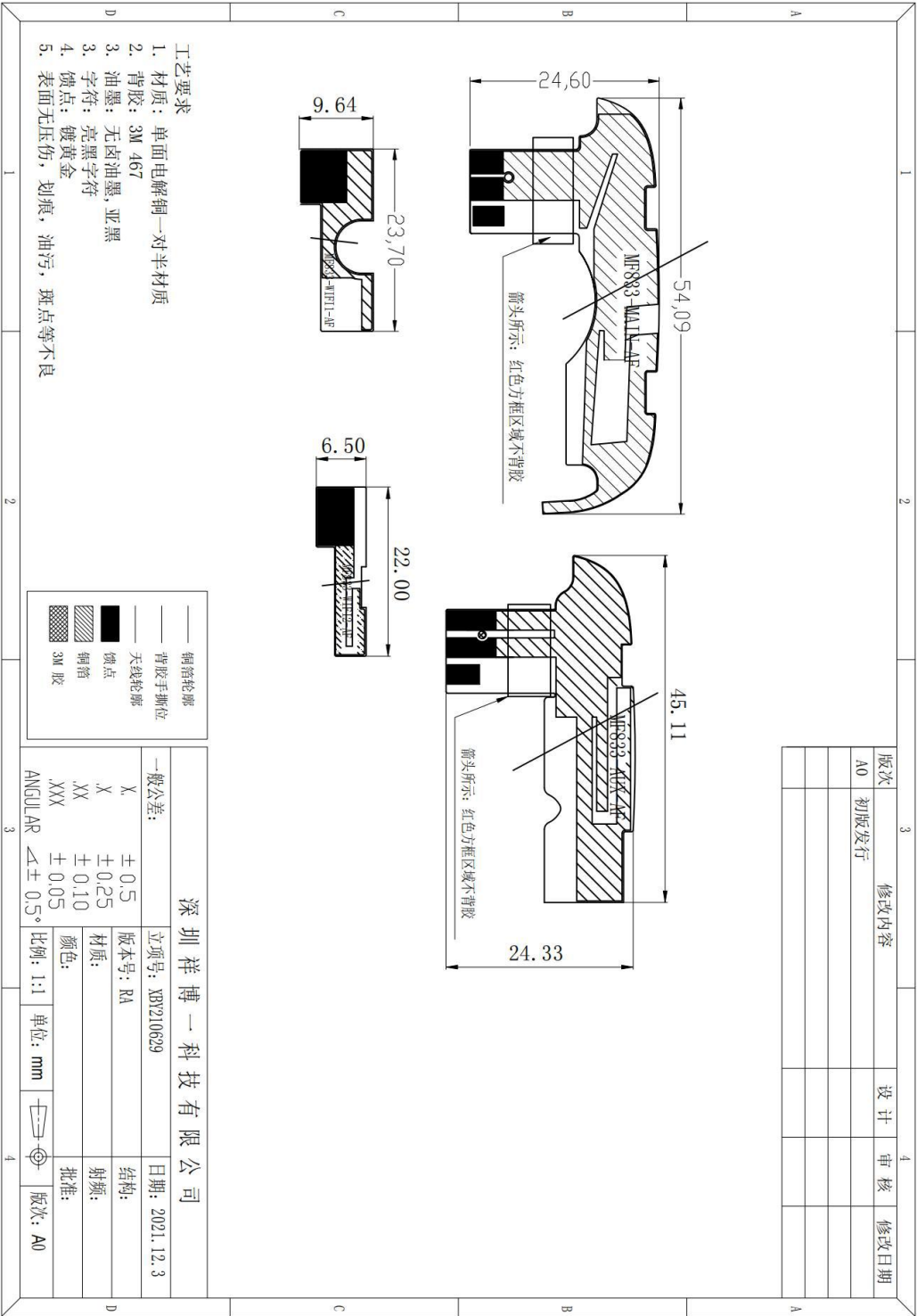
TEST REPORTS

Frequency	MAIN: 700-894Mhz 1710-2690Mhz WIFI: 2400-2500Mhz
Impedance	50 Ohm Nominal
V.S.W.R	1.92:1 Max
Return Loss	-10dB Max
Radiation	Omni-directional
Gain(Peak)	WCDMA B5/LTE B26: 0.1 dBi, WCDMA B2/ LTE B2/B25: 1.7dBi LTE B7/B41: 2.1dBi, LTE B12/B17: -0.7dBi, LTE B4/B66: 1.8dBi Wi-Fi: 2.1dBi
Polarization	Linear,Vertical
Admitted Power	1W
Connector	/
Physical Properties	
Antenna Material	FPC
Cable Type	/
Operating Temp.	-10-+60℃
Storage Temp.	-10-+70℃
Cable Color	/

Matching Circuits



Drawings



Passive data

MAIN

WCDMA BAND	WCDMA-B2			WCDMA-B5		
Channel	L	M	H	L	M	H
TRP	20.31	18.93	18.85			
TIS			-105.3			
WCDMA BAND	WCDMA-B8					
Channel	L	M	H			
TRP	16.81	15.56	15.39			
TIS			-103.67			

LTE BAND	LTE-2			LTE-3		
Channel	L	M	H	L	M	H
TRP	19.46	19.56	19.03	20.54	17.96	17.76
TIS			-93.23			-95.24
LTE BAND	LTE-4			LTE-7		
Channel	L	M	H	L	M	H
TRP	18.49	17.17	18.04	19.66	18.16	16.77
TIS			-93.45			-91.29
LTE BAND	LTE-8			LTE-12		
Channel	L	M	H	L	M	H
TRP	17.29	16.08	15.64	15.39	16.59	16.55
TIS			-89.55			-92.61

LTE BAND	LTE-17			LTE-20		
Channel	L	M	H	L	M	H
TRP				18.27	17.31	16.5
TIS						-91.89
LTE BAND	LTE-25			LTE-26		
Channel	L	M	H	L	M	H
TRP	18.07	18.54	17.99	17.57	17.65	16.1
TIS			-92.58			-91.11

LTE BAND	LTE-41			LTE-66		
Channel	L	M	H	L	M	H
TRP	19.24	18.45	19.83	16.53	17.13	19.09
TIS			-90.77			-89.8

wifi

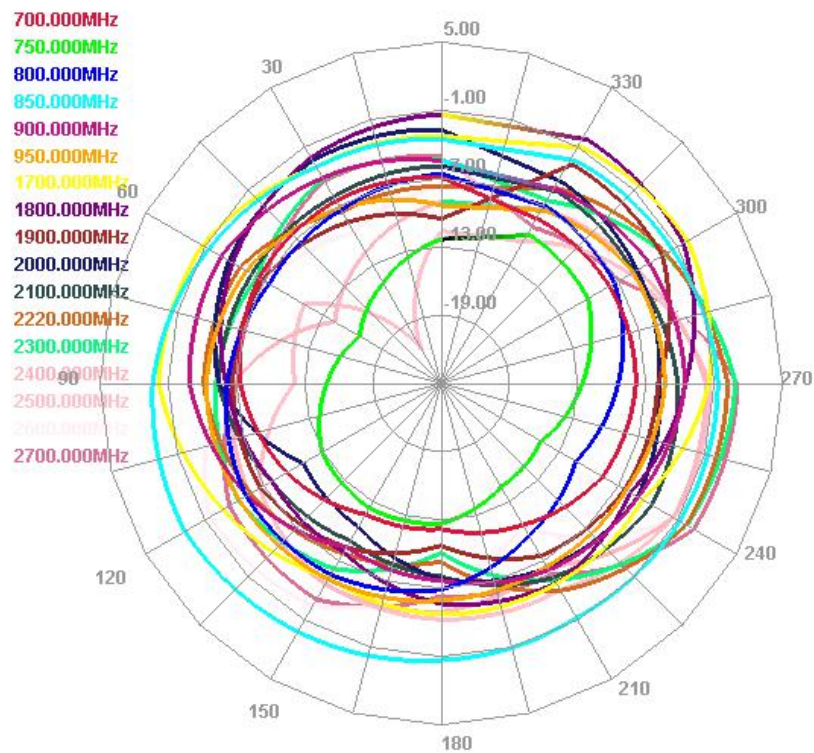
WIFI BAND	802.11b : 11Mbps			802.11g : 54Mbps		
Channel	CH1	CH7	CH13	CH1	CH7	CH13
TRP	14.45	15.21	15.69	13.78	13.29	12.89
TIS	-82.78	-83.11	-82.48	-72.45	-72.31	-71.41
WIFI BAND	802.11n : MCS7					
Channel	CH1	CH7	CH13			
TRP	13.59	13.11	12.65			
TIS	-72.59	-73.12	-72.41			

MAIN		
Frequency	Efficiency(%)	Gain
600MHz	30.3%	-0.8
650MHz	31.5%	-0.7
700MHz	32.8%	-0.7
750MHz	34.9%	-0.6
800MHz	36.3%	-0.4
850MHz	38.5%	0.1
900MHz	37.8%	0.1
950MHz	35.3%	0.1
1700MHz	41.3%	1.5
1750MHz	42.5%	1.8
1800MHz	42.8%	1.7
1850MHz	42.7%	1.6

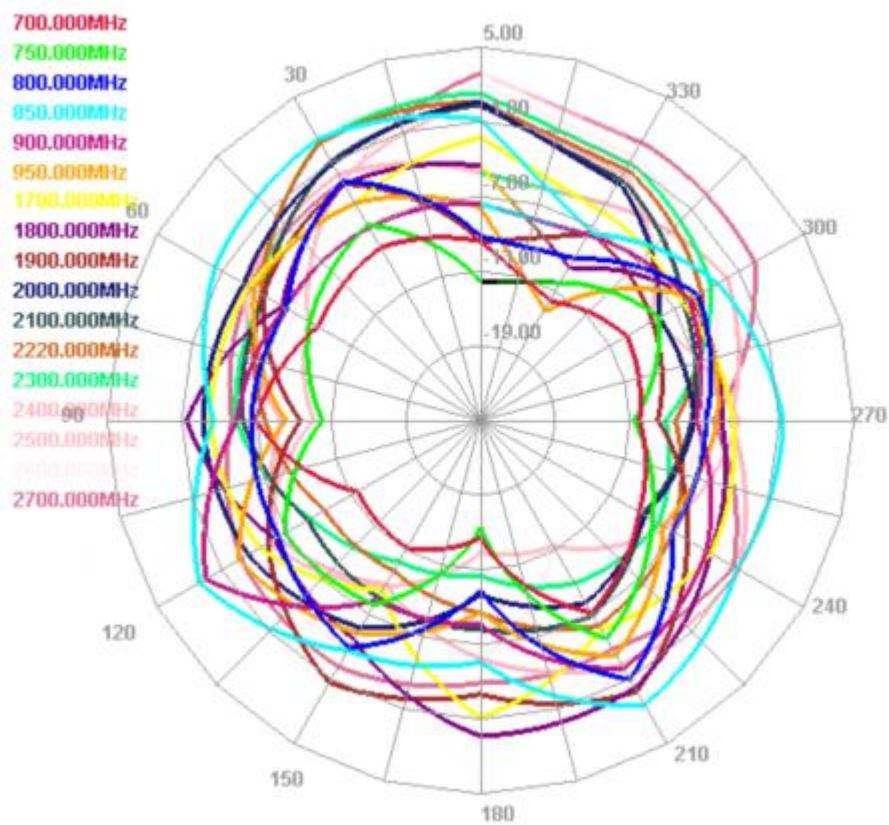
1900MHz	42.3%	1.7	
1950MHz	42.3%	1.6	
2000MHz	42.4%	1.8	
2050MHz	42.5%	1.8	
2100MHz	42.8%	1.8	
2150MHz	42.5%	1.8	
2200MHz	42.9%	1.8	
2300MHz	41.8%	1.9	
2350 MHz	42.2%	1.9	
2400MHz	42.3%	2.0	
2450MHz	42.5%	2.1	
2500MHz	42.3%	2.1	
2550MHz	42.2%	2.1	
2600MHz	42.5%	2.1	
2650MHz	41.8%	2.1	
2700MHz	42.7%	2.1	

LTE directional diagram; directivity diagram

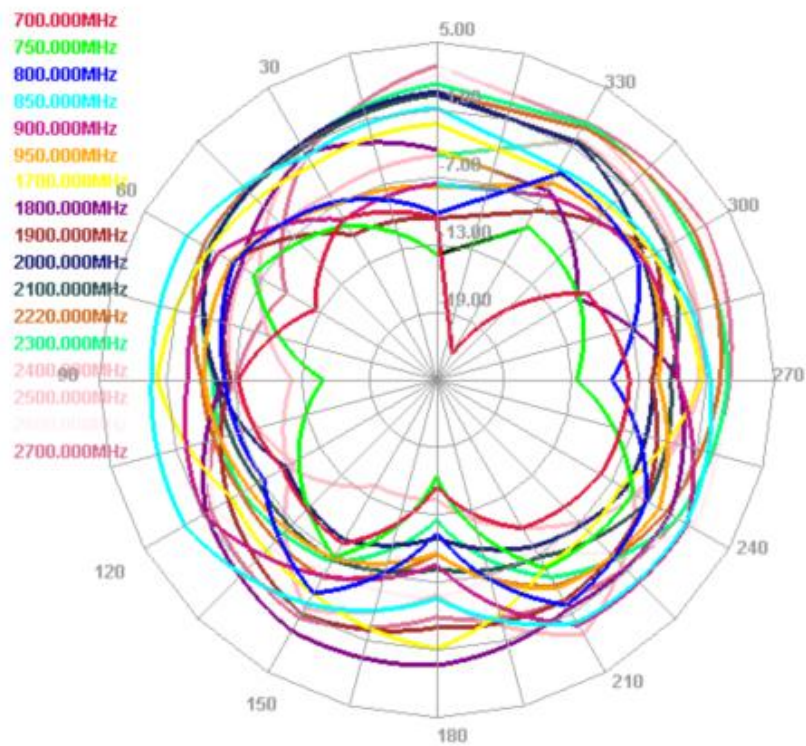
Horizontal



E1 Face

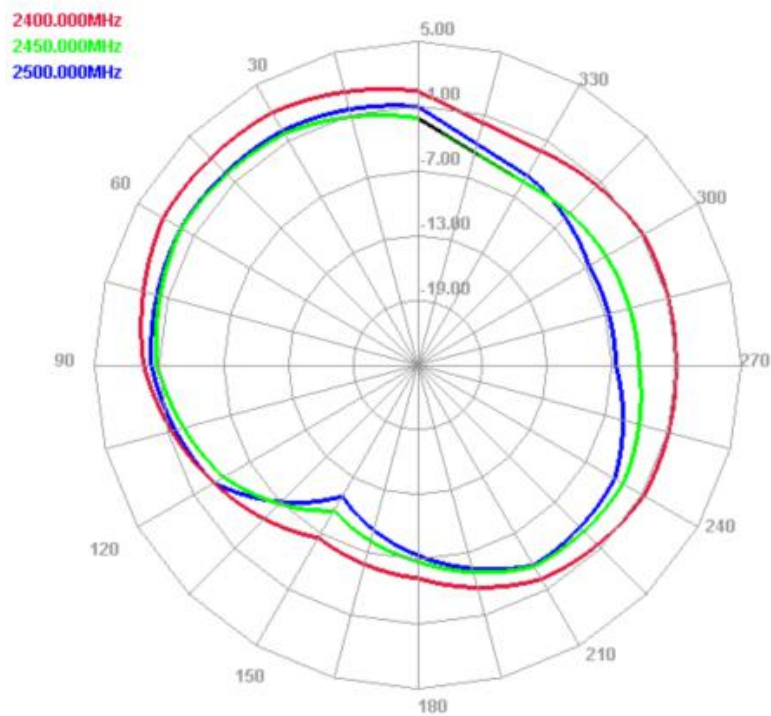


E2 Face



WiF idirectional diagram; directivity diagram

Horizontal

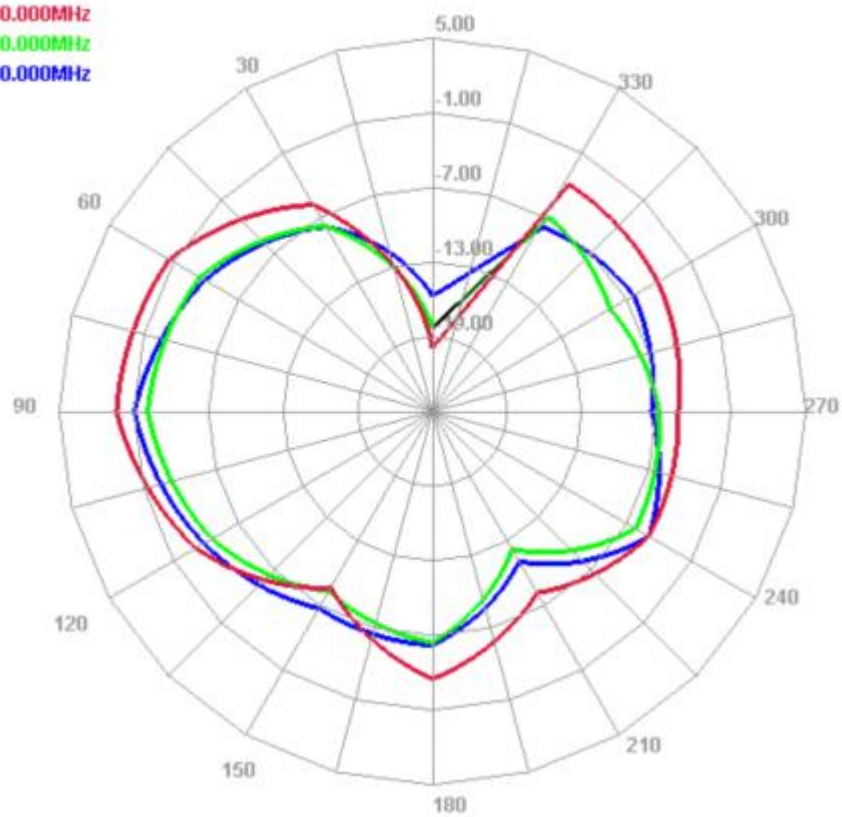


E1 Face

2400.000MHz

2450.000MHz

2500.000MHz



E2 Face

2400.000MHz

2450.000MHz

2500.000MHz

