

Shenzhen Xiangboyi Technology Co. Ltd

Specification

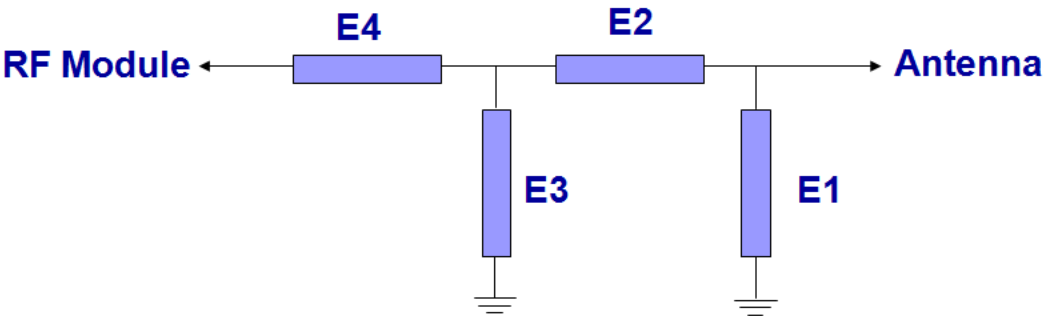
Customer	Shenzhen Harvilon Technology Co., Ltd.
Name	WIFI antenna
Customer Number	MF302-NA
Model No	XBY240341

Floor 1, Building 2, Haochuang Longhua Industrial Park, No. 95 Yousong Road, Fukang Community, Longhua Street, Longhua District, Shenzhen, China

TEST REPORTS

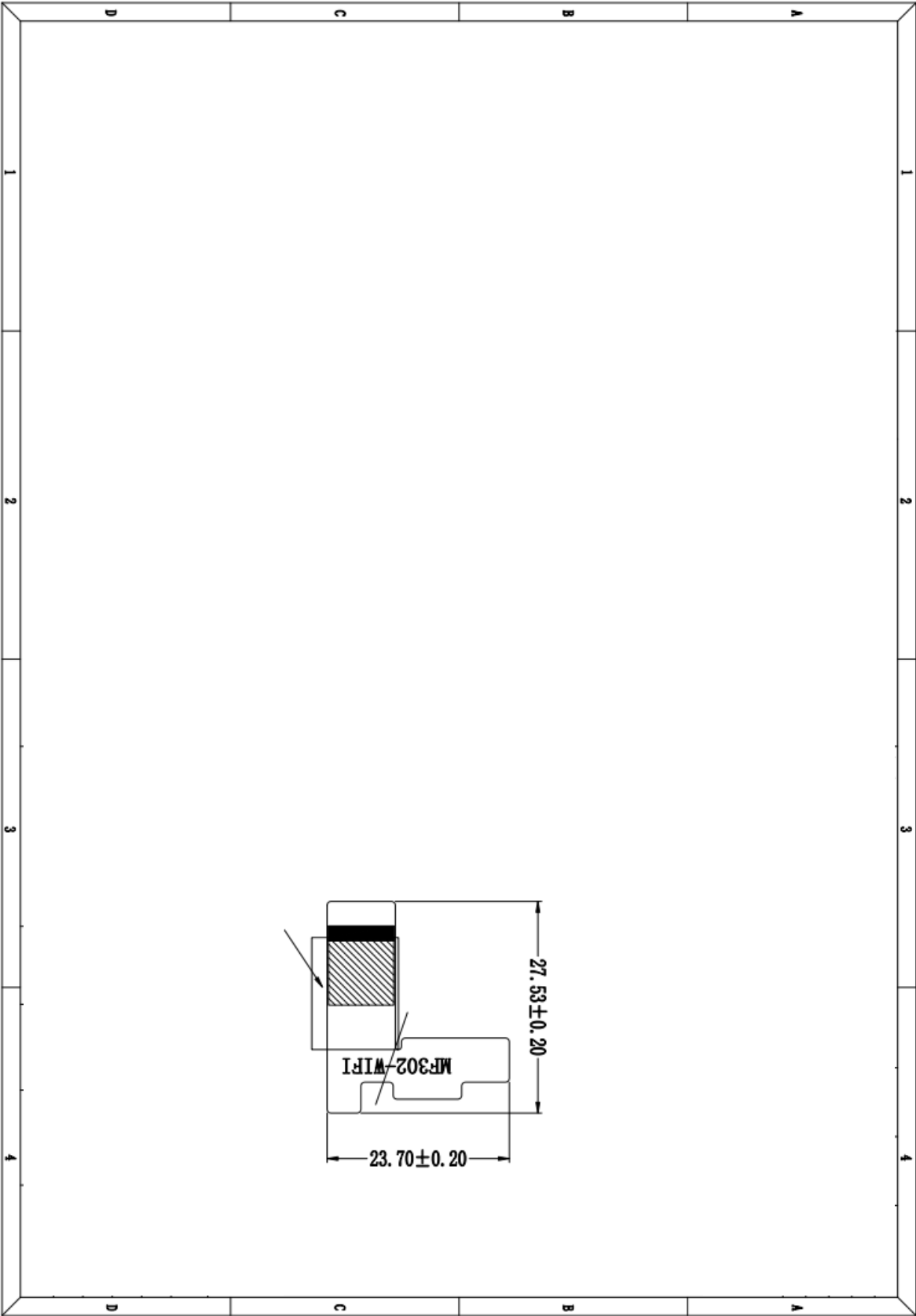
Frequency	WIFI(2400~2500MHz)
Impedance	50 Ohm Nominal
V.S.W.R	1.31:1 Max
Return Loss	-17.34dB Max
Radiation	Omni-directional
Gain(Peak)	2400~2500 2.22dBi
Polarization	Linear,Vertical
Admitted Power	1W
Connector	/
Physical Properties	
Antenna Material	FPC
Cable Type	/
Operating Temp.	-10-+60℃
Storage Temp.	-10-+70℃
Cable Color	/

Matching Circuits



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

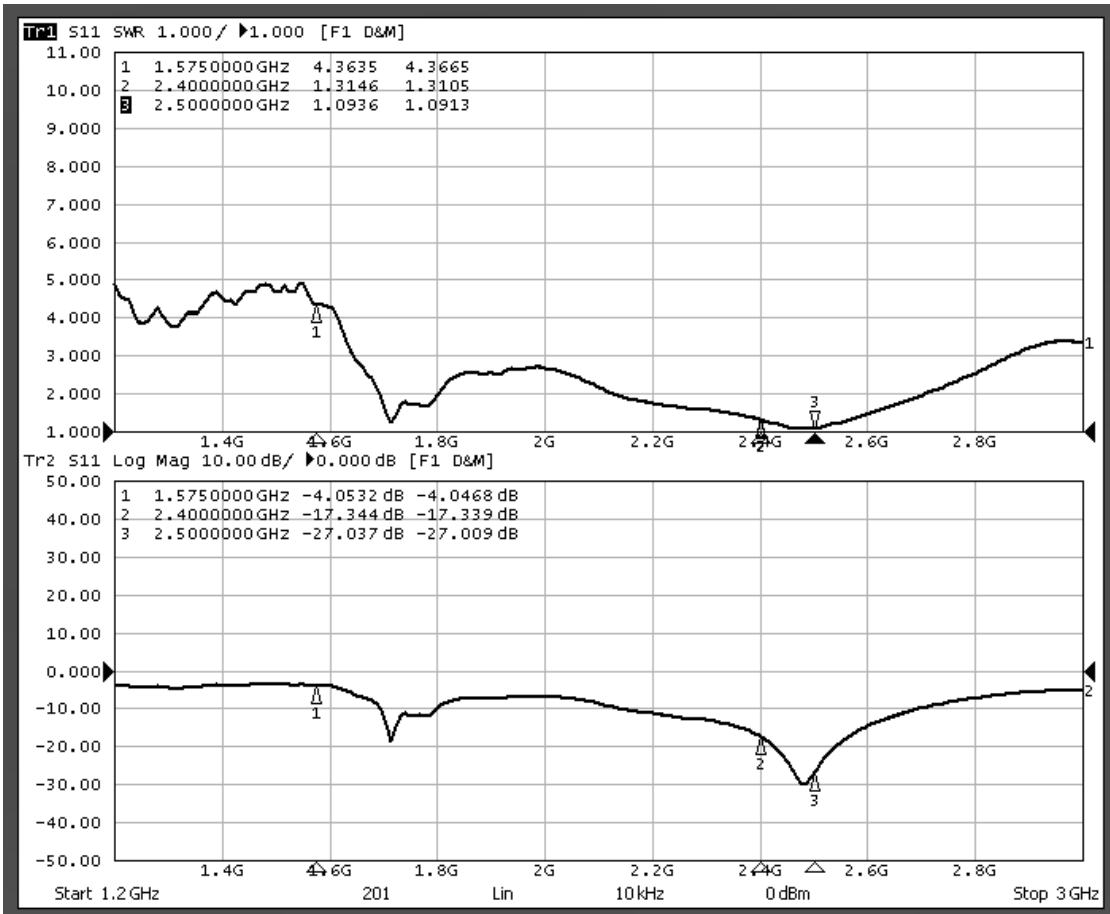
Drawings



Test Data

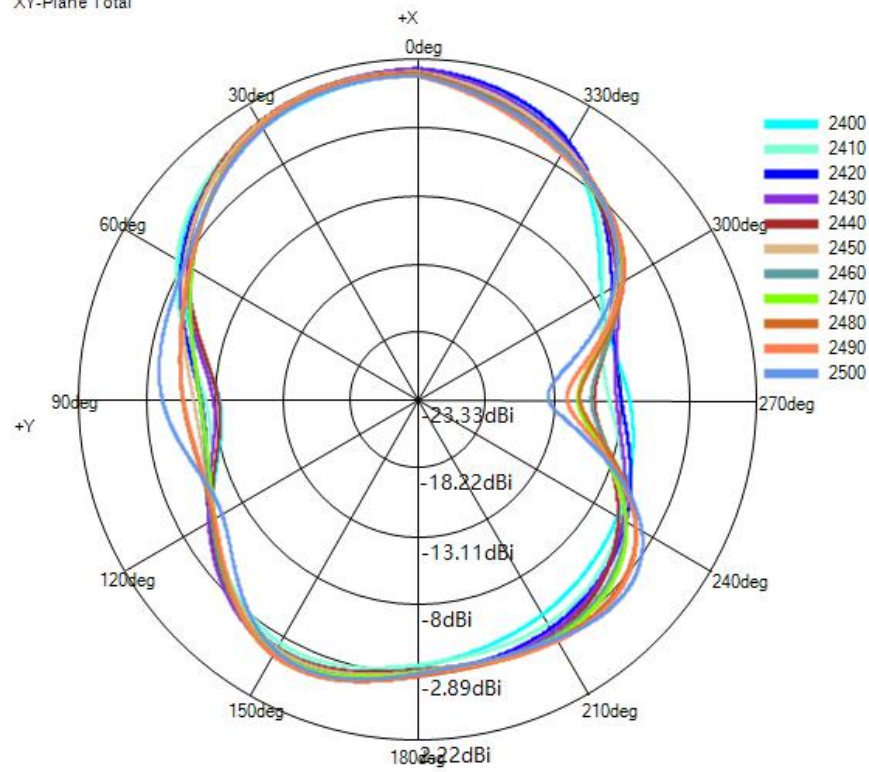
WIFI BAND	802.11b : 11Mbps (2.4G)			802.11g : 54Mbps (2.4G)		
Channel	CH1	CH7	CH13	CH1	CH7	CH13
TRP (dBm)	14.23	14.69	15.41	12.84	13.49	13.74
TIS (dBm)	-82.11	-82.23	-81.39	-70.25	-70.18	-70.17

WIFI BAND	802.11n : MCS7 (2.4G)					
Channel	CH1	CH7	CH13			
TRP (dBm)	12.51	12.94	13.37			
TIS (dBm)	-70.41	-70.68	-70.63			



Freq (MHz)	Gain (dBi)	Efficiency (%)
2400	1.81	45.05
2410	1.75	43.67
2420	2.09	46.62
2430	2.20	45.71
2440	2.07	43.24
2450	1.98	43.30
2460	2.07	43.26
2470	2.07	42.47
2480	2.22	44.52
2490	2.20	43.59
2500	1.76	43.10

XY-Plane Total



2D-Plane Total

+Z
0deg

330deg

300deg

30deg

60deg

90deg

+Y

120deg

150deg

180deg

210deg

240deg

270deg

2.69 dBi

-2.51 dBi

-7.71 dBi

-12.91 dBi

-18.11 dBi

-23.31 dBi

2400

2410

2420

2430

2440

2450

2460

2470

2480

2490

2500

Figure 10: Polar plot of the total radiation pattern in the XZ-plane. The plot shows the radiation pattern for various frequencies (2400 MHz to 2500 MHz) in the XZ-plane. The gain is plotted in dBi, and the angle is in degrees. The maximum gain is 23.31 dBi at 0 degrees. The plot includes a legend for frequencies from 2400 to 2500 MHz.