



2. 4G Antenna specification&Test report

Yichip Microelectronics

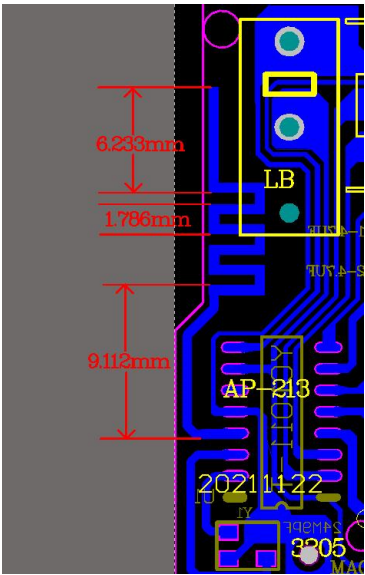
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Manufacturer Ccompany	Dongguan Zhuotong Electronics Co., Ltd.
Manufacturer Address	2nd Floor, No. 2 Jintan 7th Street, Danwu Village, Shijie Town, Dongguan City.
Test Date	2020/7/24
Test Instrument	Keysight E5071B

antenna designspecification

Antennadimensionsas blow picture show: the material is FR4 and thethicknessis 1.6mm of PCB.

Gian and Efficiency



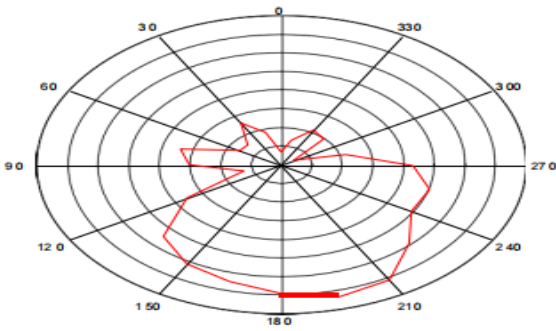
Frequency (MHz)	Efficiency(%)	Gain(dBi)
2300	12.77	-2.33
2320	20.15	-0.40
2340	25.71	0.95
2360	30.32	1.59
2380	30.90	1.63
2400	33.26	2.52
2420	38.93	3.55
2440	38.73	3.34
2460	36.32	2.93

2480	35.23	2.87
2500	35.82	2.53
2520	33.02	1.93
2540	31.62	1.42

3D and 1D Radiation Patterns (2420MHz)

Cut1

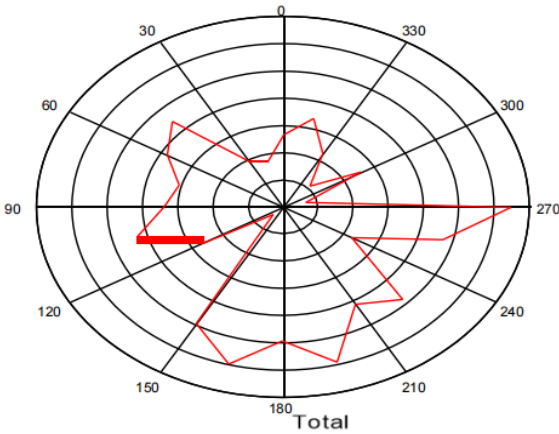
Gain: (dBi)



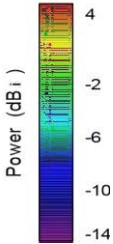
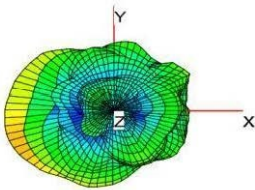
Max: 4
Min: -4
Scale: 1/div

Angle
Cut2

Gain: (dBi)



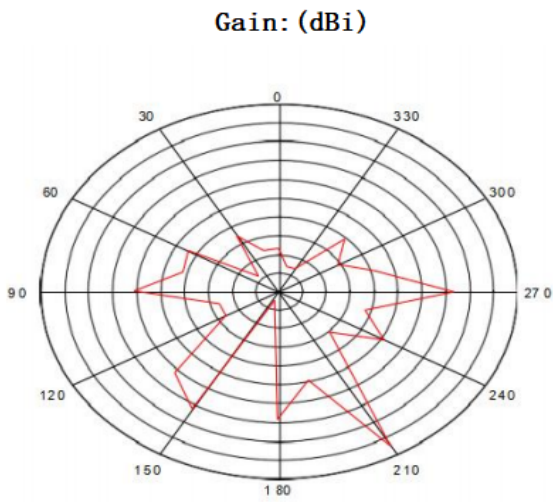
Azimuth = 0.0
Elevation = 0.0
Roll = 0.0



Max: 4
Min: -10
Scale: 2/div

Angle
Cut3

Max: 3
Min: -7
Scale: 1/div



Angle