



2. 4G Antenna specification&Test report

Yichip Microelectronics

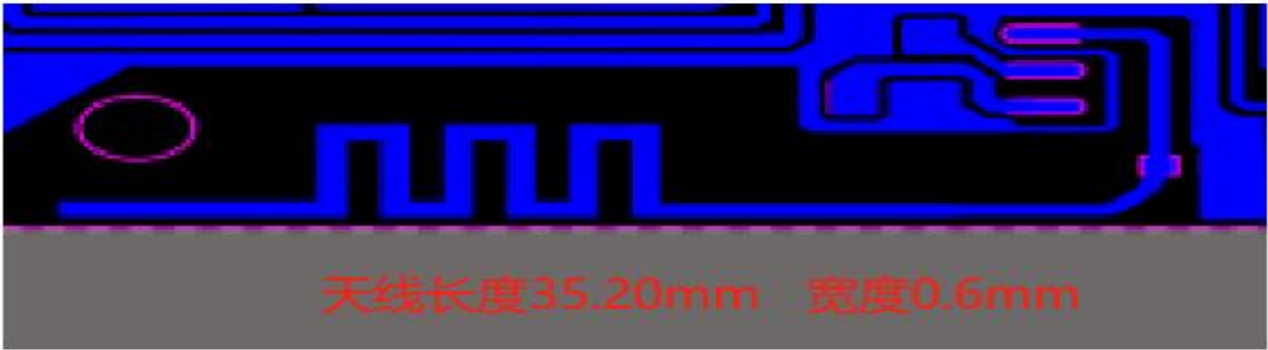
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Manufacturer Ccompany	Dongguan Zhuotong Electronics Co., Ltd.
Manufacturer Address	2nd Floor, No. 2 Jintan 7th Street, Danwu Village, Shijie Town, Dongguan City.
Test Date	2020/7/24
Test Instrument	Keysight E5071B

antenna design specification

Antenna dimensions as blow picture show: the material is FR4 and the thickness is 1.6mm of PCB.

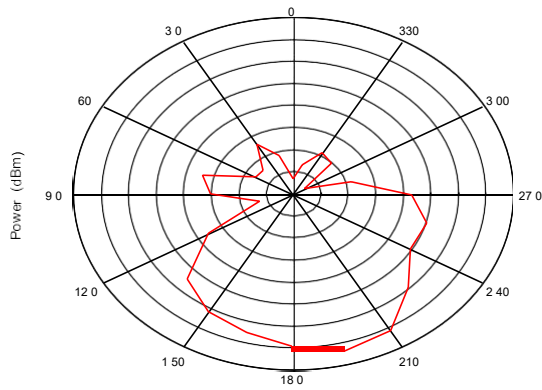
Gian and Efficiency



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	3.52
2500	35.82	3.58
2520	33.02	3.30
2540	31.62	3.16

3D and 1D Radiation Patterns

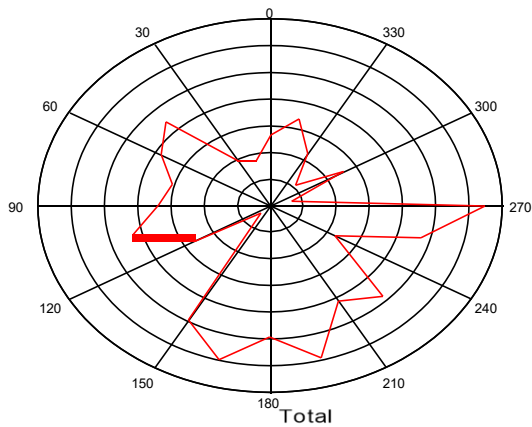
Cut1



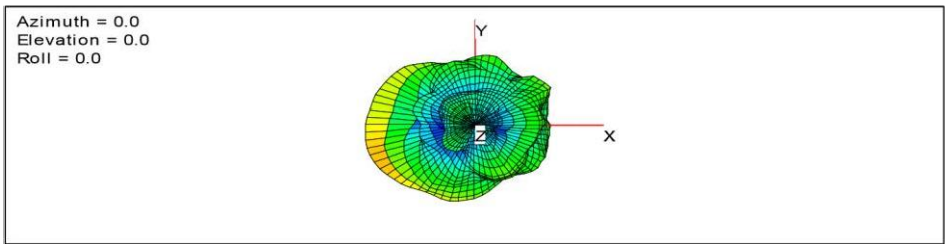
Max: 4
Min: -4
Scale: 1/div

Angle

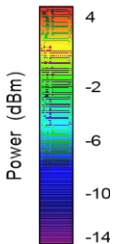
Cut2



Total



Azimuth = 0.0
Elevation = 0.0
Roll = 0.0



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

Power (dBm)

Angle

Cut3

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

Angle

