



2. 4G Antenna specification&Test report

Yichip Microelectronics

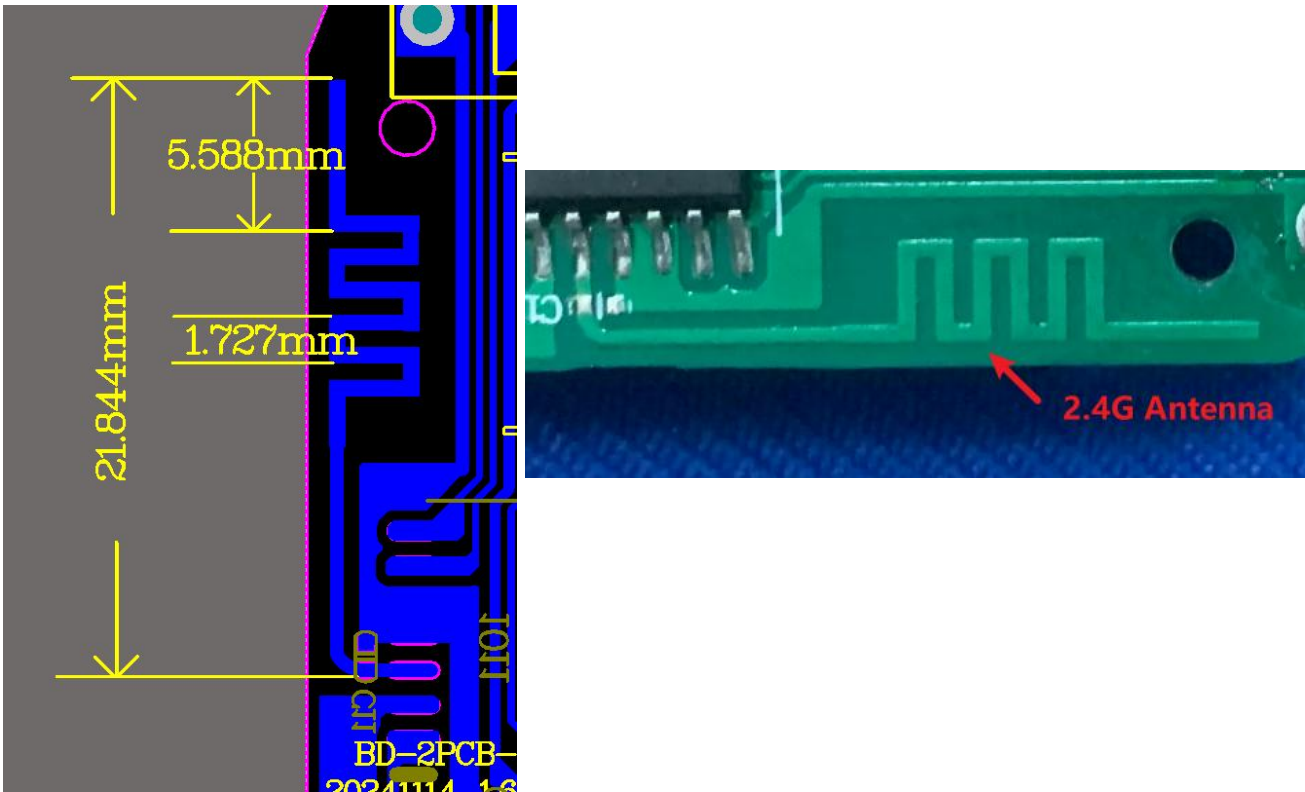
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Manufacturer Company	Dongguan Zhuotong Electronics Co., Ltd.
Manufacturer Address	2nd Floor, No. 2 Jintan 7th Street, Danwu Village, Shijie Town, Dongguan City.
Test Date	2020/7/24
Test Instrument	Keysight E5071B

antenna designspecification

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

Gian and Efficiency



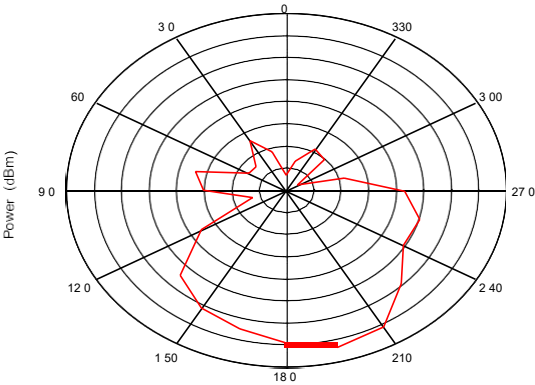
Frequency (MHz)	Efficiency(%)	Gain(dBi)
2402	12.77	-2.33
2410	20.15	-0.40
2415	25.71	0.95
2420	30.32	1.59
2430	30.90	1.63
2440	33.26	2.52
2450	38.93	3.55
2455	38.73	3.34
2460	36.32	2.93

2465	35.23	2.87
2470	35.82	2.53
2475	33.02	1.93
2480	31.62	1.42

3D and 1D Radiation Patterns

Cut1

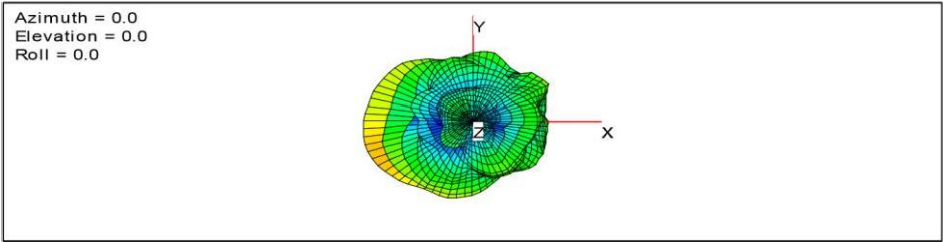
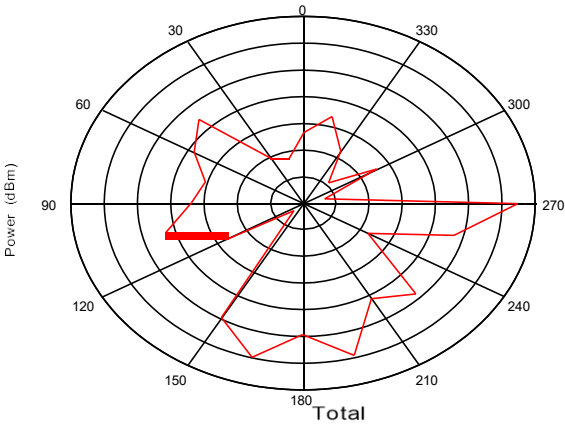
2450MHz



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

Angle

Cut2



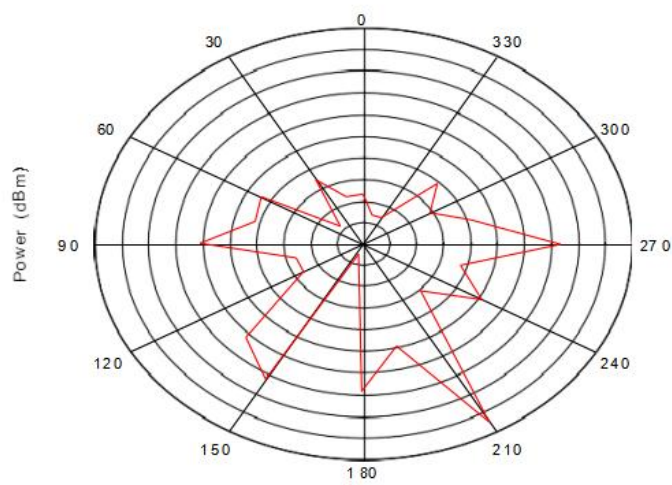
Max: 4
Min: -4
Scale: 2/div

Angle

Cut3

2470MHz

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



Angle