



2. 4G Antenna specification&Test report

Yichip Microelectronics

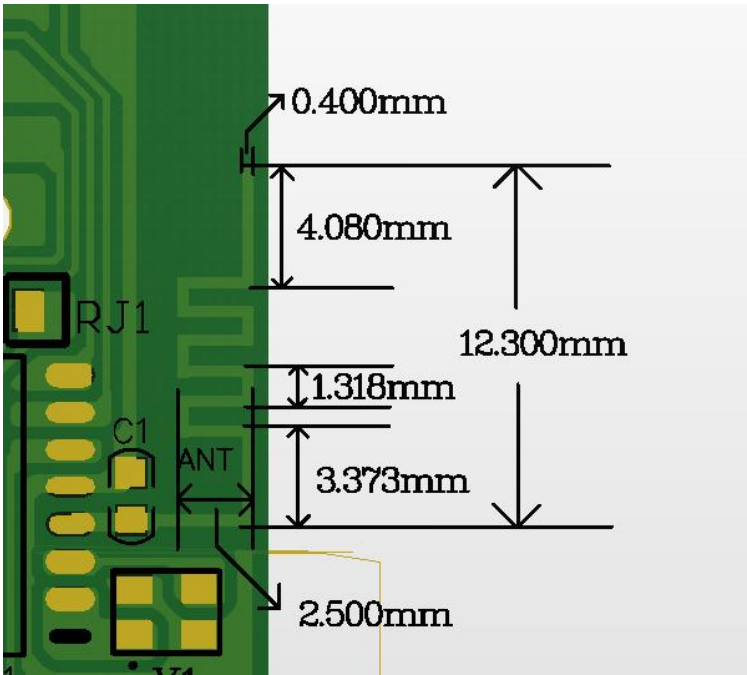
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Manufacturer Ccompany	Dongguan Zhuotong Electronics Co., Ltd.
Manufacturer Address	2nd Floor, No. 2 Jintan 7th Street, Danwu Village, Shijie Town, Dongguan City.
Test Date	2020/7/24
Test Instrument	Keysight E5071B

antenna designspecification

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

Gian and Efficiency



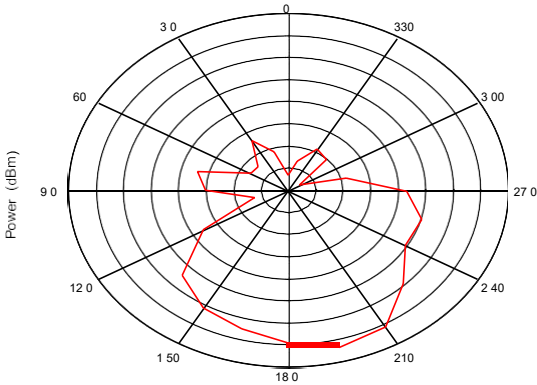
Frequency (MHz)	Efficiency(%)	Gain(dBi)
2402	12.77	-2.33
2410	20.15	-0.40
2415	25.71	-0.95
2420	30.32	-1.59
2430	30.90	-1.63
2440	33.26	-2.52
2450	38.93	-3.55
2455	38.73	-3.34
2460	36.32	-2.93

2465	35.23	-2.87
2470	35.82	-2.53
2475	33.02	-1.93
2480	31.62	0

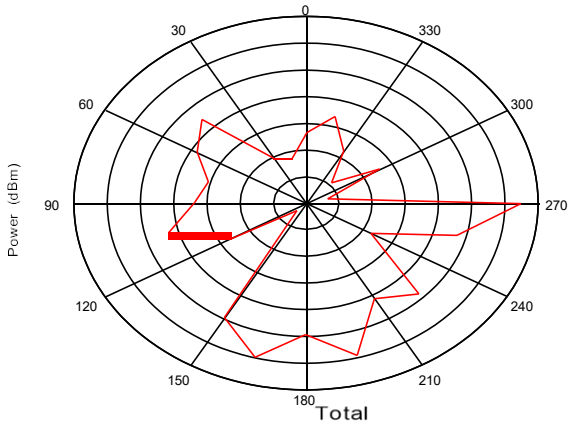
3D and 1D Radiation Patterns

Cut1

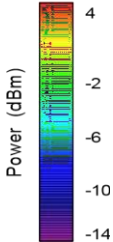
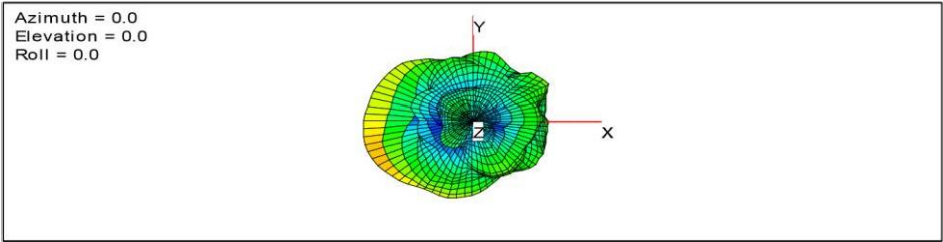
Max: 4
Min: -4
Scale: 1/div



Angle
Cut2

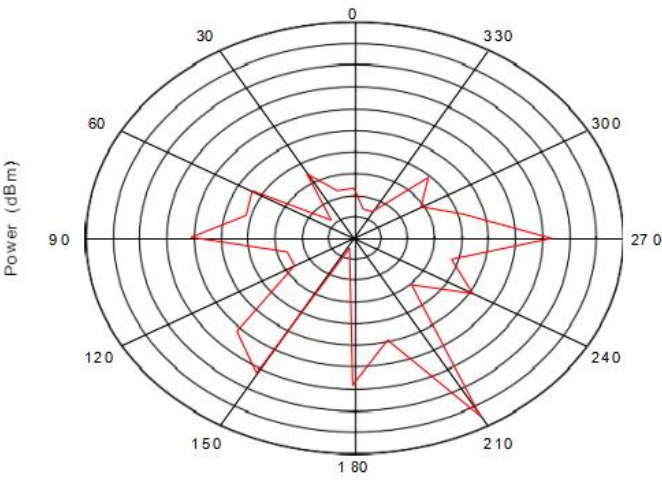


Max: 4
Min: -10
Scale: 2/div



Angle
Cut3

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



Angle