



## Bluetooth Antenna specification

**Yichip Microelectronics**  
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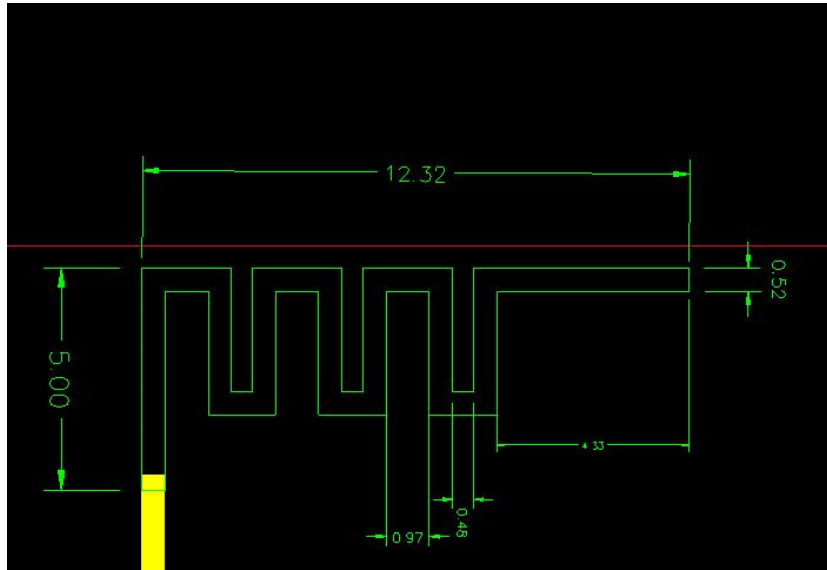
Manufacturer: Shenzhen Yinxiaoqian technology Co., Ltd.  
Address: 202E, building A4, Hom Industrial Zone, 41 Wuhe Avenue (South)  
Nankeng community, Bantian street, Longgang District, Shenzhen. China

Test Ccompany	TA Technology (Shanghai) Co., Ltd.
Test Address	Building 1, No. 400, Fangchun Road, China (Shanghai) Pilot Free Trade Zone
Test Date	2020/7/24
Test Instrument	Keysight E5071B

Antenna Type : PCB Antenna  
Model: X4

### antenna design specification

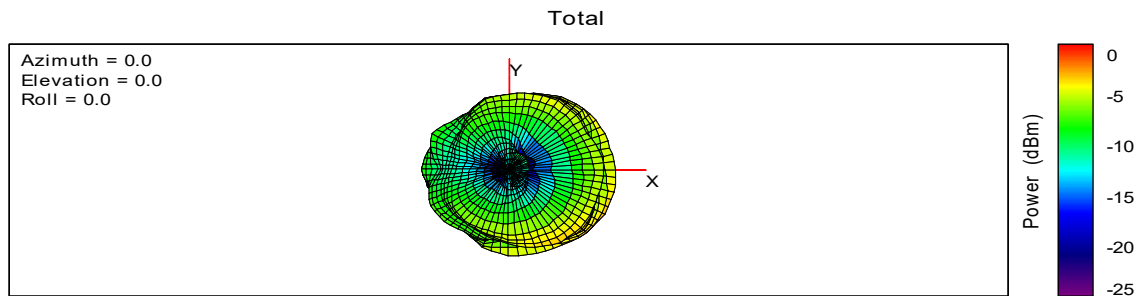
Antenna dimensions as blow picture show: the material is FR4 and the thickness is 1.6mm of PCB.



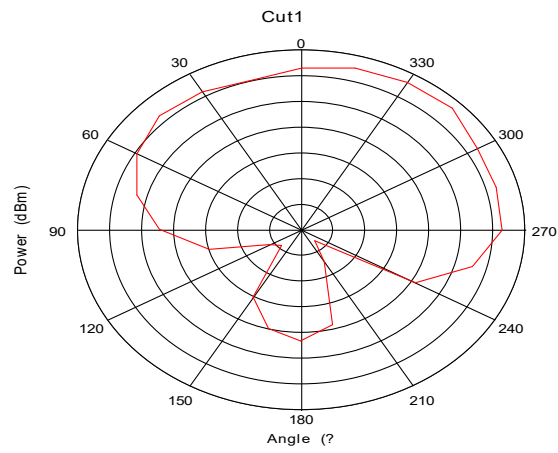
### Gian and Efficiency

Frequency (MHz)	Efficiency(%)	Gain(dBi)
2402	14.86	-0.93
2420	12.54	-1.17
2440	9.92	-2.03
2460	7.46	-2.47
2480	6.11	-2.98

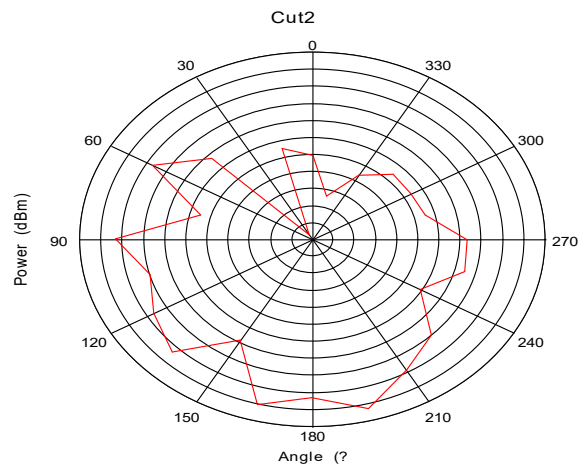
### 3D and 1D Radiation Patterns



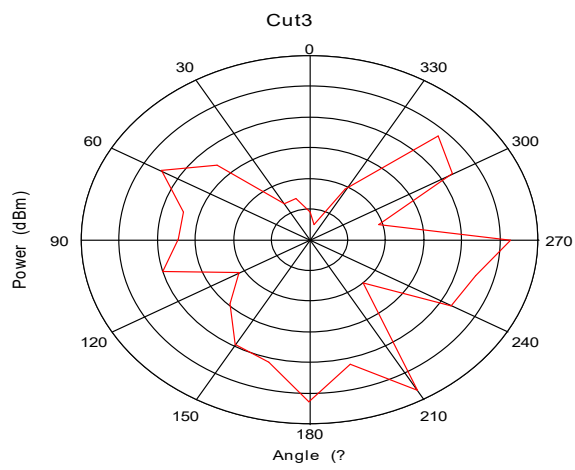
2440M TRP 1



Max: -2  
Min: -16  
Scale: 2/div



Max: 0  
Min: -22  
Scale: 2/div



Max: -2  
Min: -14  
Scale: 2/div