



## 2.4G Antenna specification&Test report

Yichip Microelectronics

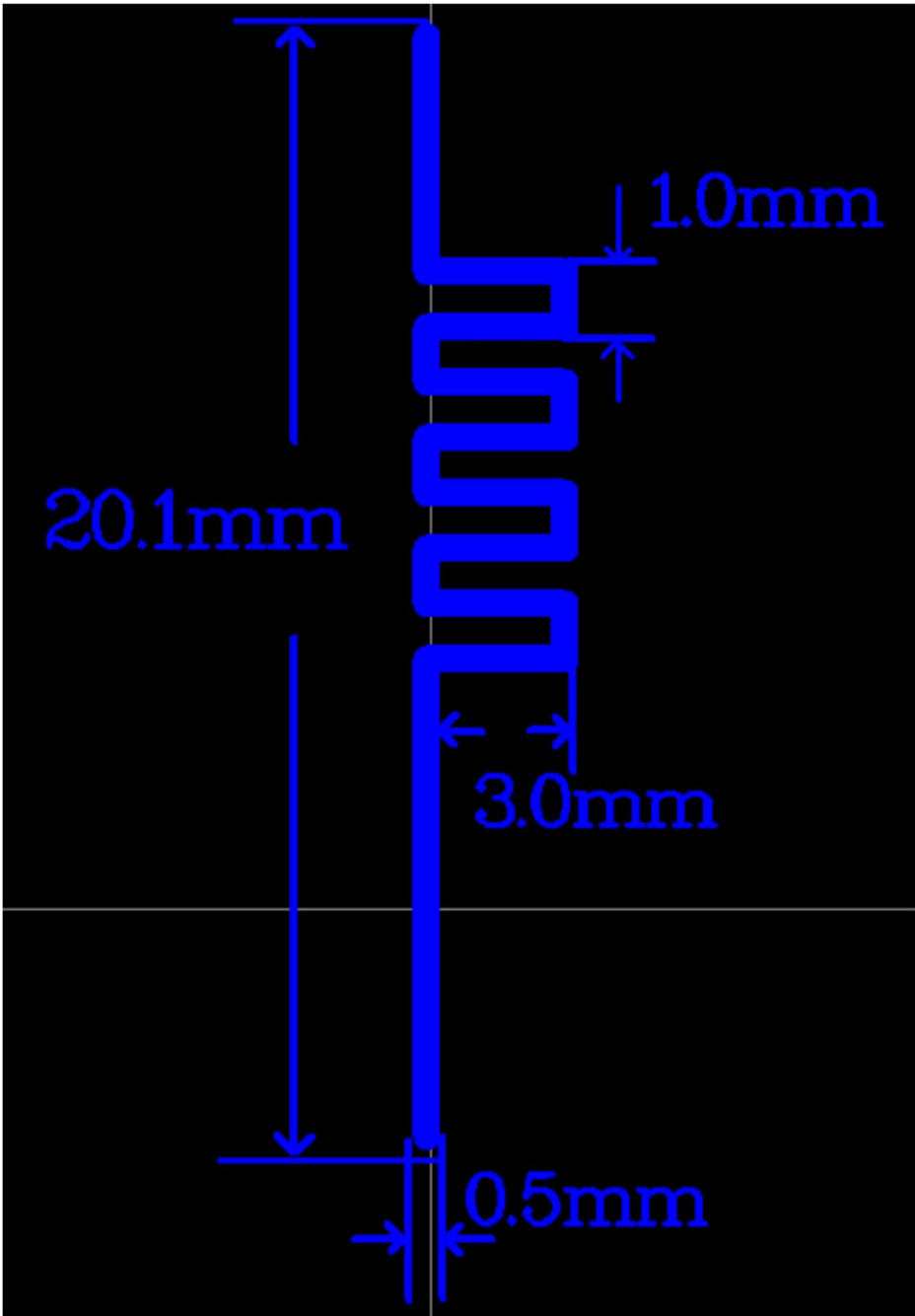
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|                      |                                                                                |
|----------------------|--------------------------------------------------------------------------------|
| Manufacturer Company | Dongguan Zhuotong 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 design specification

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

Gian and Efficiency



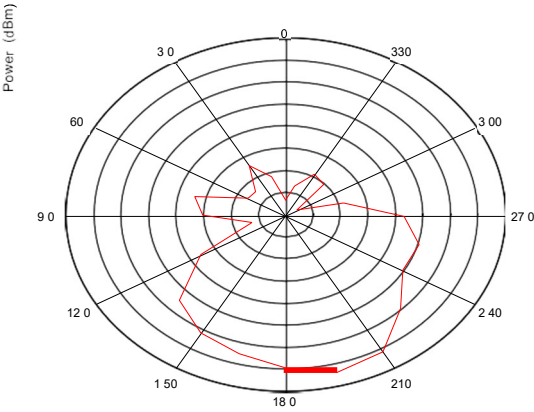
| <b>Frequency<br/>(MHz)</b> | <b>Efficiency(%)</b> | <b>Gain(dBi)</b> |
|----------------------------|----------------------|------------------|
| 2402                       | 12.77                | -2.33            |
| 2410                       | 20.15                | -0.40            |
| 2415                       | 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

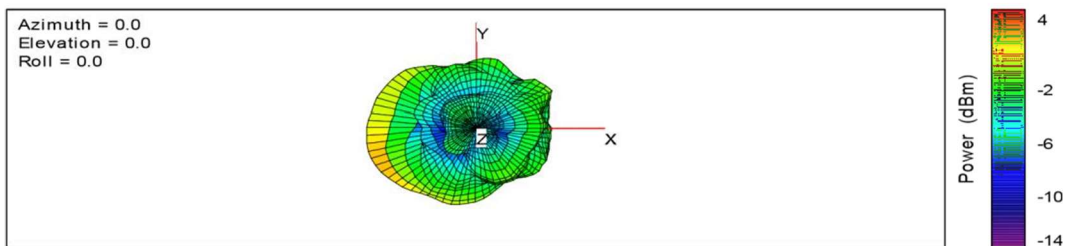
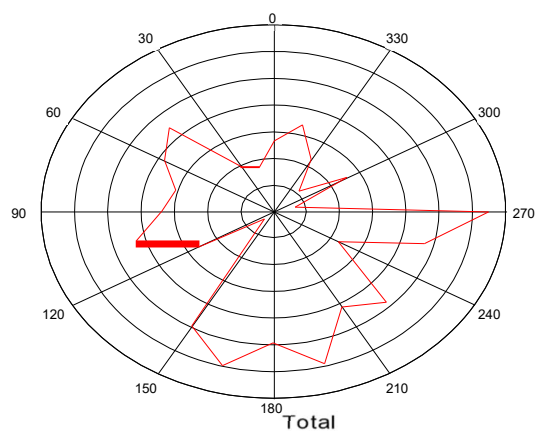
Cut1

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



Angle

Cut2



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

Angle

Cut3

Power (dBm)

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

