



## 2. 4G Antenna specification&Test report

Yichip Microelectronics

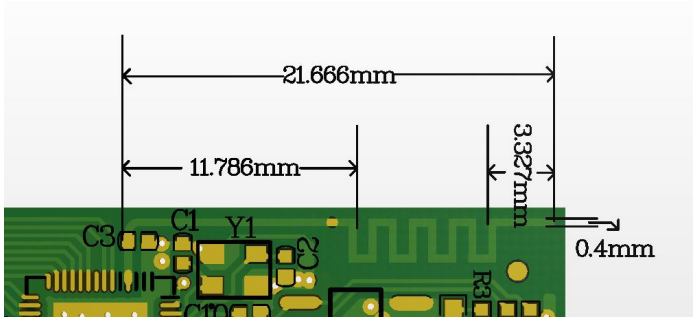
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|                       |                                                                                |
|-----------------------|--------------------------------------------------------------------------------|
| Manufacturer Ccompany | Dongguan 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) |
|-----------------|---------------|-----------|
| 2402            | 12.77         | -1.23     |
| 2410            | 20.15         | -0.86     |
| 2415            | 25.71         | 0.75      |
| 2420            | 30.32         | 1.43      |
| 2430            | 30.90         | 1.66      |
| 2440            | 33.26         | 2.39      |
| 2450            | 38.93         | 3.47      |
| 2455            | 38.73         | 3.55      |
| 2460            | 36.32         | 3.08      |

|      |       |      |
|------|-------|------|
| 2465 | 35.23 | 2.79 |
| 2470 | 35.82 | 2.61 |
| 2475 | 33.02 | 2.15 |
| 2480 | 31.62 | 1.58 |

3D Radiation Patterns  
@2455MHz  
(Unit:dBi)

