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Applicable to Q161 Pro project WIFI antenna solution

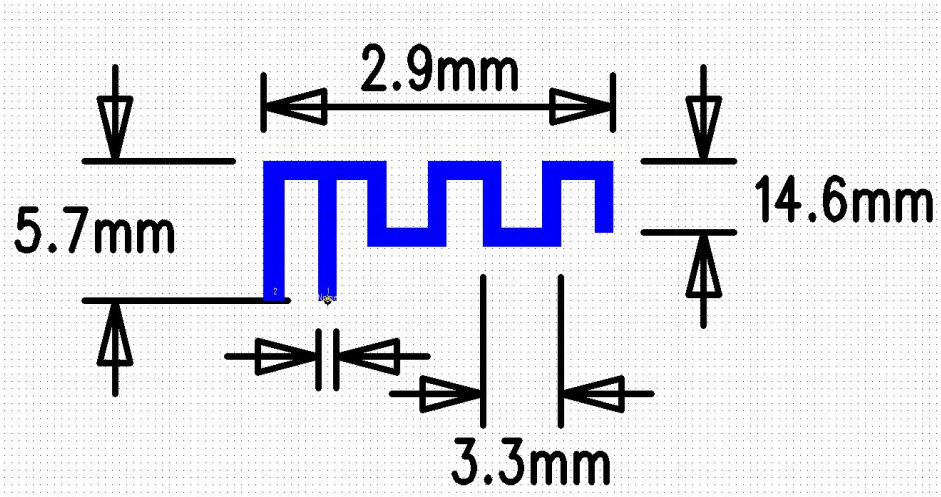
## Electrical Specifications:

| | | | |
|---|---|---|---|
| Frequency Band | 2.4G | The Antenna Material | FPC |
| Nominal Impedance | 50Ω | Antenna Connection Mode | Top touch |
| VSWR | ≤5.0 | Working Temperature | -40℃～+85℃ |
| Peak Gain | 2.4-2.5GHz：0.98dBi | Keep The Temperature | +19℃～+23℃ |
| | | Polarization | Linear Polarization |

## Test Conditions And Methods:

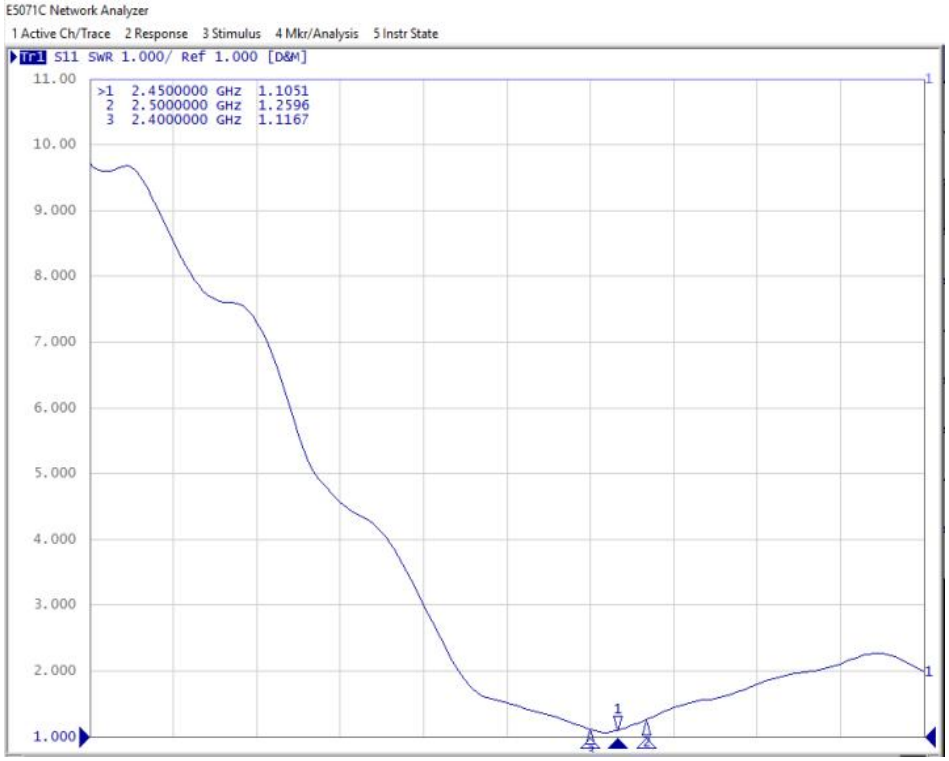
| Test Instruments | Test Method | Test Result |
|---|---|---|
| 7*4*3 microwave darkroom<br>E5071B network analyzer | 1.<br>Assemble the antenna to be tested on the prototype.<br>2.<br>Put the prototype on the test fixture in a dark room, and conduct comprehensive test with it.Instrument/analyzer connection is established.<br>3.<br>Test antenna passive data with test software. | Refer to the Test Report |

Product drawings



## Passive performance test parameters

| Frequency(MHz) | 2400 | 2450 | 2500 |
|---|---|---|---|
| VSWR | 1.11 | 1.1 | 1.25 |



antenna passive data:

| Freq (MHz) | Effi (%) | Gain (dBi) |
|---|---|---|
| 2400 | 20.61 | 0.05 |
| 2410 | 20.93 | 0.62 |
| 2420 | 21 | 0.69 |
| 2430 | 21.5 | 0.95 |
| 2440 | 22.49 | 0.98 |
| 2450 | 23.33 | 0.66 |
| 2460 | 23.86 | 0.37 |
| 2470 | 23.94 | 0.03 |
| 2480 | 24.87 | 0.14 |
| 2490 | 25.04 | -0.07 |
| 2500 | 24.49 | -0.59 |

Directional diagram