



# 深圳市博格斯通信技术有限公司

shenzhen bogesi communication technology co.,ltd

Applicable to Q181 SE & Q181 mini project WIFI antenna solution

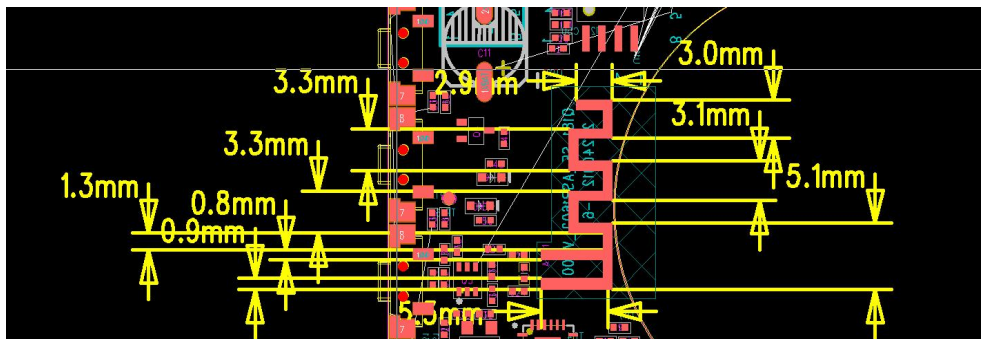
## Electrical Specifications:

|                   |                     |                         |                     |
|-------------------|---------------------|-------------------------|---------------------|
| Frequency Band    | 2.4G/5G             | The Antenna Material    | pcb                 |
| Nominal Impedance | 50 $\Omega$         | Antenna Connection Mode | Top touch           |
| VSWR              | $\leq 5.0$          | Working Temperature     | -40°C ~ +85°C       |
| Peak Gain         | 2.4~2.5GHz: 0.98dBi | Keep The Temperature    | +19°C ~ +23°C       |
|                   |                     | Polarization            | Linear Polarization |

## Test Conditions And Methods:

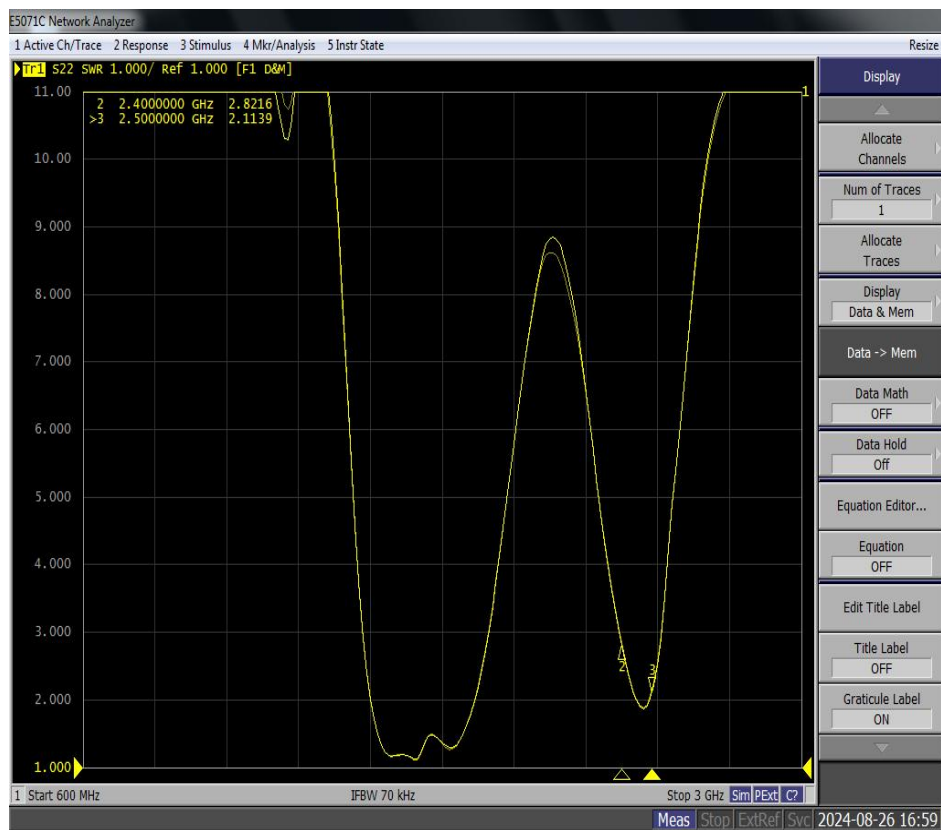
| Test Instruments                                    | Test Method                                                                                                                                                                                                                                                            | 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 | 2500 |  |
| VSWR            | 2.82 | 2.11 |  |



antenna passive data:

| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 2400          | 25.81       | 0.05          |
| 2410          | 27.3        | 0.62          |
| 2420          | 28.18       | 0.69          |
| 2430          | 30.41       | 0.95          |
| 2440          | 31.03       | 0.98          |
| 2450          | 29.96       | 0.66          |
| 2460          | 29.17       | 0.37          |
| 2470          | 28.39       | 0.03          |
| 2480          | 30.25       | 0.14          |
| 2490          | 29.22       | -0.07         |
| 2500          | 25.86       | -0.59         |

Directional diagram

