



**深圳市博格斯通信技术有限公司**  
**shenzhen bogesi communication technology co.,ltd**

Room 308, Block B, Cybernino Gene Therapy Park, No. 19, Science and Technology Road 1, Nanshan District, Shenzhen, China

Applicable to A78-SU806D-EAU project WIFI antenna solution

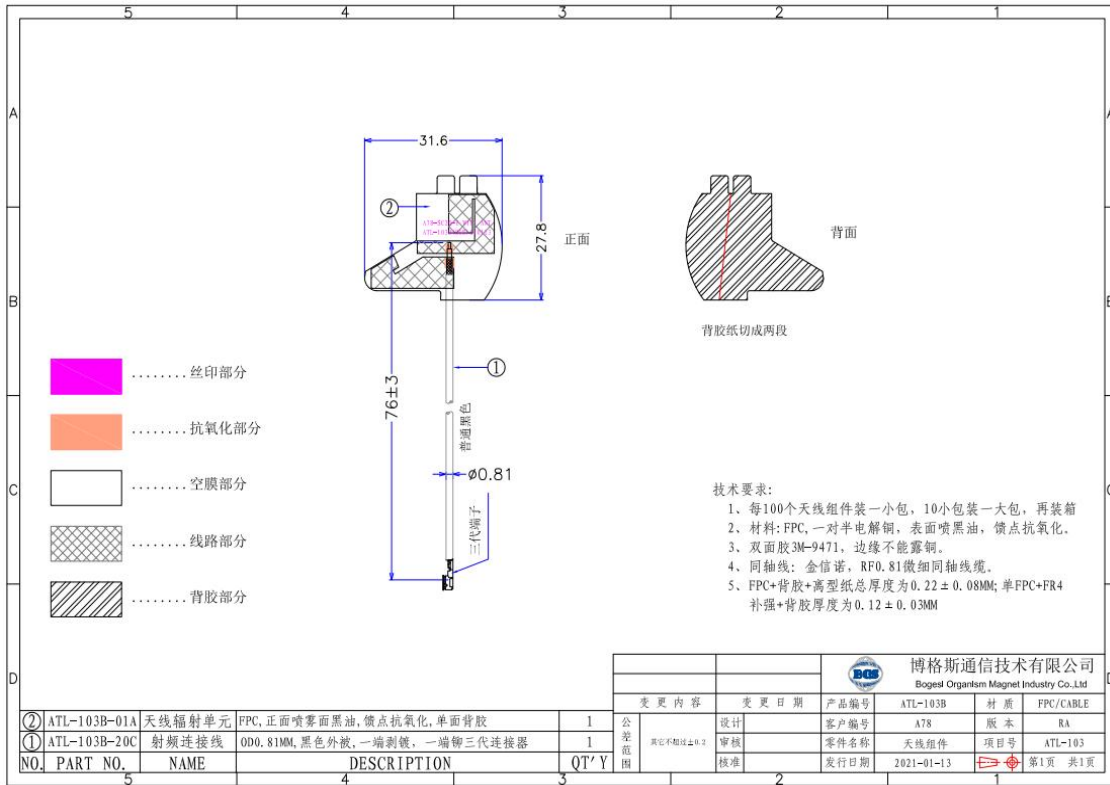
**Electrical Specifications:**

|                   |                       |                         |                     |
|-------------------|-----------------------|-------------------------|---------------------|
| Frequency Band    | WIFI                  | The Antenna Material    | FPC                 |
| Nominal Impedance | 50 $\Omega$           | Antenna Connection Mode | IPEX III            |
| VSWR              | $\leq 5.0$            | Working Temperature     | -40°C ~ +85°C       |
| Peak Gain         | 2400-2500MHz: 2.23dBi | Keep The Temperature    | +19°C ~ +23°C       |
|                   | 5100-5800MHz: 5.88dBi | Polarization            | Linear Polarization |

**Test Conditions And Methods:**

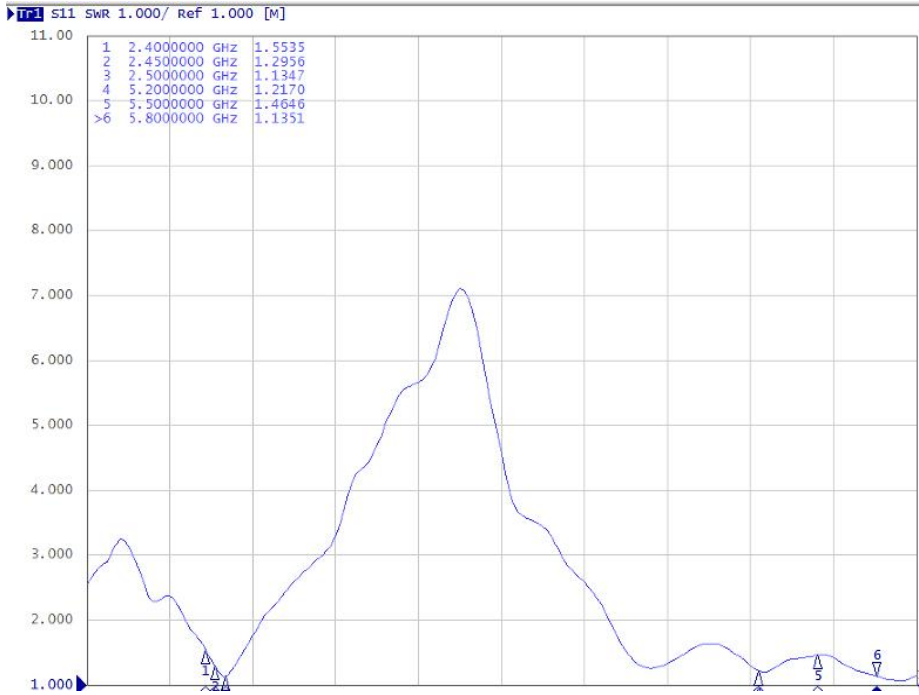
| Test Instruments   | Test Method   | Test Result              |
|--|---|--------------------------|
| 7*4*3 microwave darkroom<br>E5071B network analyzer<br>48 probe test system<br>MT8862 comprehensive tester | 1. Assemble the antenna to be tested on the prototype.<br>2. Put the prototype on the test fixture in a dark room, and conduct comprehensive test with it. Instrument/analyzer connection is established.<br>3. Test antenna passive data with test software. | Refer to the Test Report |

# Product drawings



### Passive performance test parameters

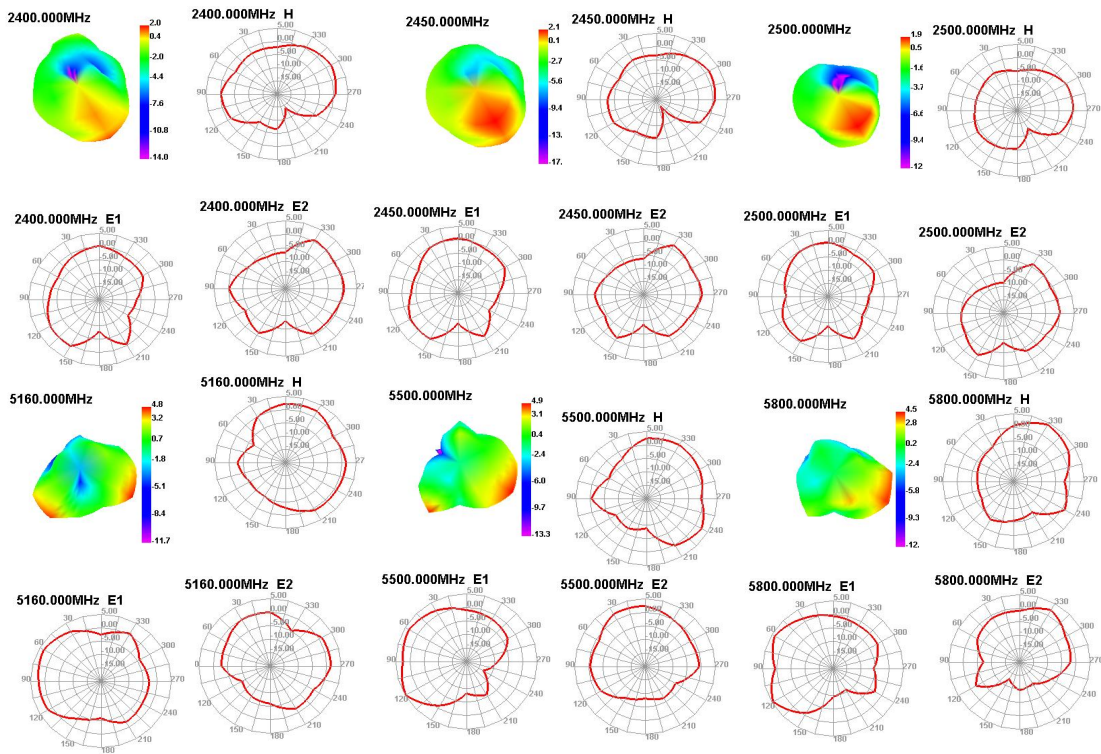
|                 |      |      |      |
|-----------------|------|------|------|
| Frequency (GHz) | 2.4  | 5.2  | 5.8  |
| VSWR            | 1.55 | 1.21 | 1.13 |



antenna passive data:

| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 2400          | 47.38       | 1.96          |
| 2410          | 50.95       | 2.19          |
| 2420          | 48.48       | 2.06          |
| 2430          | 51.99       | 2.23          |
| 2440          | 44.51       | 1.81          |
| 2450          | 44.56       | 2.07          |
| 2460          | 38.45       | 1.78          |
| 2470          | 40.64       | 2.03          |
| 2480          | 56.43       | 1.82          |
| 2490          | 59.78       | 2.18          |
| 2500          | 55.66       | 1.94          |
| 5100          | 57.65       | 5.88          |
| 5120          | 54.3        | 5.44          |
| 5140          | 67.54       | 5.12          |
| 5160          | 65.46       | 4.84          |
| 5180          | 60.79       | 4.59          |
| 5200          | 50.05       | 3.8           |
| 5220          | 46.29       | 3.28          |
| 5240          | 42.19       | 3.25          |
| 5260          | 47.55       | 3.8           |
| 5280          | 50.57       | 3.85          |
| 5300          | 53.69       | 3.74          |
| 5320          | 56.47       | 4.17          |
| 5340          | 61.26       | 4.64          |
| 5360          | 64.76       | 4.69          |
| 5380          | 61.32       | 4.32          |
| 5400          | 58.43       | 4.22          |
| 5420          | 60.24       | 4.53          |
| 5440          | 57.76       | 4.37          |
| 5460          | 62.93       | 4.72          |
| 5480          | 70.18       | 5.08          |
| 5500          | 69.24       | 4.92          |
| 5520          | 67.16       | 4.87          |
| 5540          | 59.35       | 4.72          |
| 5560          | 53.94       | 4.42          |
| 5580          | 50.96       | 4.15          |
| 5600          | 48.09       | 3.83          |
| 5620          | 43.36       | 3.66          |
| 5640          | 43.05       | 3.73          |
| 5660          | 47.32       | 3.92          |
| 5680          | 56.21       | 4.24          |
| 5700          | 56.14       | 4.29          |
| 5720          | 59.05       | 4.7           |
| 5740          | 61.24       | 4.65          |
| 5760          | 71.29       | 4.92          |
| 5780          | 67.81       | 4.85          |
| 5800          | 59.91       | 4.54          |

## Directional diagram



## Picture of machine

