



**深圳市博格斯通信技术有限公司**  
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Applicable to A78-SC200L-AU project WIFI antenna solution

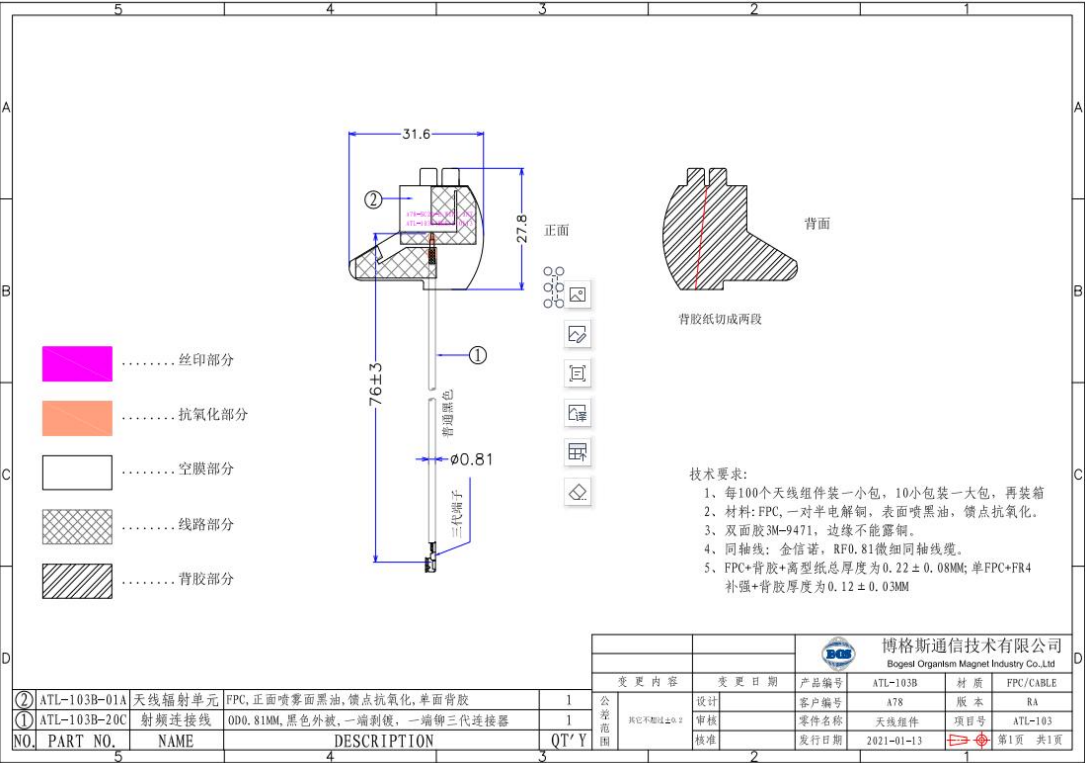
**Electrical Specifications:**

|                   |                       |                         |                     |
|-------------------|-----------------------|-------------------------|---------------------|
| Frequency Band    | WIFI                  | The Antenna Material    | FPC                 |
| Nominal Impedance | 50 $\Omega$           | Antenna Connection Mode | IPEX III            |
| VSWR              | $\leq 4.0$            | Working Temperature     | -40℃~+85℃           |
| Peak Gain         | 2400-2500MHz: 2.11dBi | Keep The Temperature    | +19℃~+23℃           |
|                   | 5100-5800MHz: 4.02dBi | Polarization            | Linear Polarization |

**Test Conditions And Methods:**

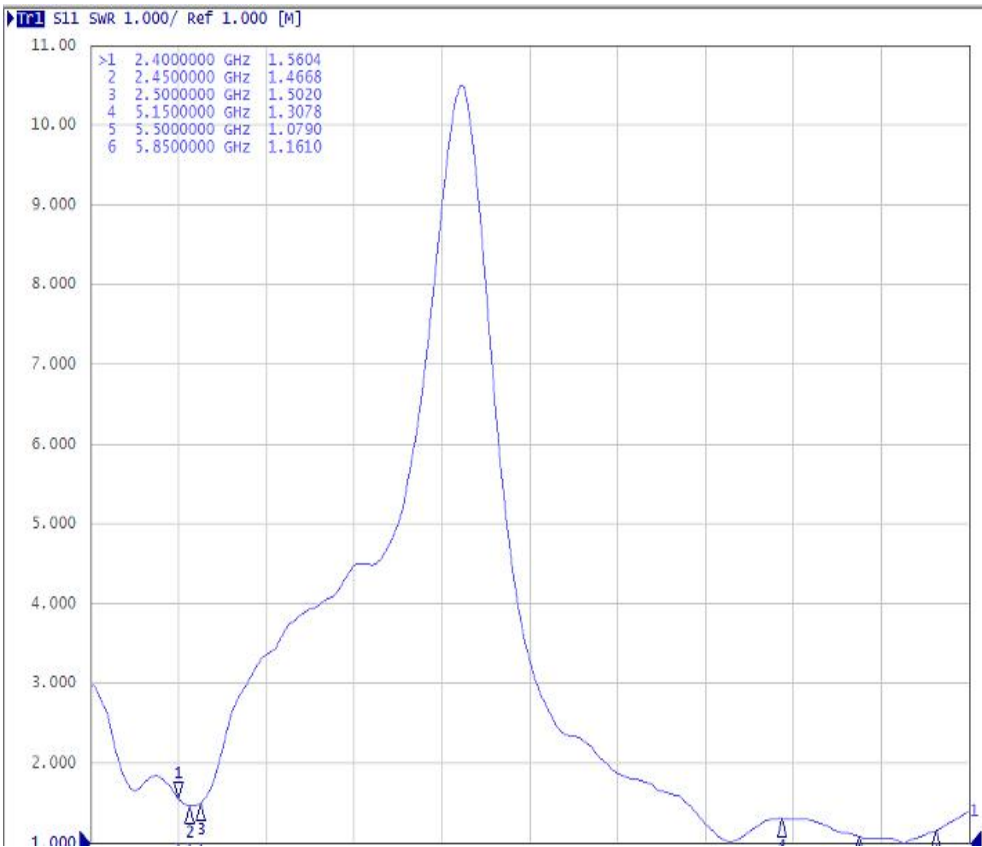
| Test Instruments                                                                                           | Test Method                                                                                                                                                                                                                                                            | Test Result              |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 7*4*3 microwave darkroom<br>E5071B network analyzer<br>48 probe test system<br>MT8862 comprehensive tester | 1.<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 (GHz) | 2.4 | 2.5 | 5.15 | 5.85 |
| VSWR            | 1.5 | 1.5 | 1.3  | 1.16 |



antenna passive data:

| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 2400          | 55.85       | 1.9           |
| 2410          | 59.62       | 2.11          |
| 2420          | 52.76       | 1.5           |
| 2430          | 57.47       | 1.81          |
| 2440          | 46.68       | 0.91          |
| 2450          | 47.89       | 0.86          |
| 2460          | 41.89       | 0.13          |
| 2470          | 47.51       | 0.57          |
| 2480          | 44.33       | 0.28          |
| 2490          | 48.61       | 0.66          |
| 2500          | 46.51       | 0.5           |
| 5100          | 75.67       | 3.48          |
| 5120          | 80.64       | 4.02          |
| 5140          | 75.22       | 3.88          |
| 5160          | 70.63       | 3.31          |
| 5180          | 66.83       | 3.13          |
| 5200          | 60.17       | 2.85          |
| 5220          | 53.52       | 2.3           |
| 5240          | 52.5        | 2.12          |
| 5260          | 53.21       | 2.3           |
| 5280          | 57.61       | 2.71          |
| 5300          | 59.07       | 2.74          |
| 5320          | 65.59       | 3.2           |
| 5340          | 69.48       | 3.49          |
| 5360          | 70.1        | 3.6           |
| 5380          | 68.23       | 3.6           |
| 5400          | 62.15       | 3.07          |
| 5420          | 62.97       | 3.23          |
| 5440          | 60.31       | 3.21          |
| 5460          | 57.51       | 2.94          |
| 5480          | 60.26       | 3.12          |
| 5500          | 62.23       | 3.27          |
| 5520          | 61.2        | 3.27          |
| 5540          | 59.62       | 3.23          |
| 5560          | 57.19       | 3.12          |
| 5580          | 55.82       | 2.9           |
| 5600          | 54.09       | 2.85          |
| 5620          | 49.63       | 2.57          |
| 5640          | 43.41       | 1.94          |
| 5660          | 38.53       | 1.74          |
| 5680          | 41.24       | 2.02          |
| 5700          | 39.2        | 1.72          |
| 5720          | 41.88       | 2.04          |
| 5740          | 45.31       | 2.46          |
| 5760          | 47.09       | 2.68          |
| 5780          | 48.91       | 2.65          |
| 5800          | 53.46       | 3.03          |

Directional diagram

