

# SPECIFICATION

Shenzhen Guandetong Electronic Limited

*Shenzhen Guandetong Electronic Co., Ltd.*4G 3DB ultrasonic antenna 1.13 black line length 280MM band terminal

## Product Specification

|                          |     |                        |                            |
|--------------------------|-----|------------------------|----------------------------|
| connection               |     | frequency range        | 824-960MHz<br>1710-2690MHZ |
| Frequency band wire name |     | edition                | A1                         |
| Customer part number     |     | Guandetong part number |                            |
| Guandeton g No           |     |                        |                            |
| R F design               | 肖彬  | RF Manager             | 刘亮                         |
| Structural design        | 王栋  | Structure Manager      | 王华                         |
| Technical Director       | 叶定坤 | Date                   | 2024-6-25                  |

Customer confirmation:

Does the assembly meet your company's requirements: ☐OK ☐NG

# catalogue

|                                        |   |
|----------------------------------------|---|
| Cover .....                            | 1 |
| catalogue.....                         | 2 |
| 一、 Product pictures .....              | 3 |
| 二、 Product parameters .....            | 3 |
| 三、 S11(VSWR、 Return、 Smith) .....      | 4 |
| 四、 Structural drawings.....            | 4 |
| 五、 Environmental performance test..... | 5 |

Confidentiality requirements of Shenzhen Guanditong Electronic Co. , Ltd. . The company has proprietary technology to provide the information, which should be strictly confidential, it shall not be disclosed to any person or company without the prior written consent of Shenzhen Guanditong Electronic Co. , Ltd. .

一、 Product pictures



二、 Product parameters

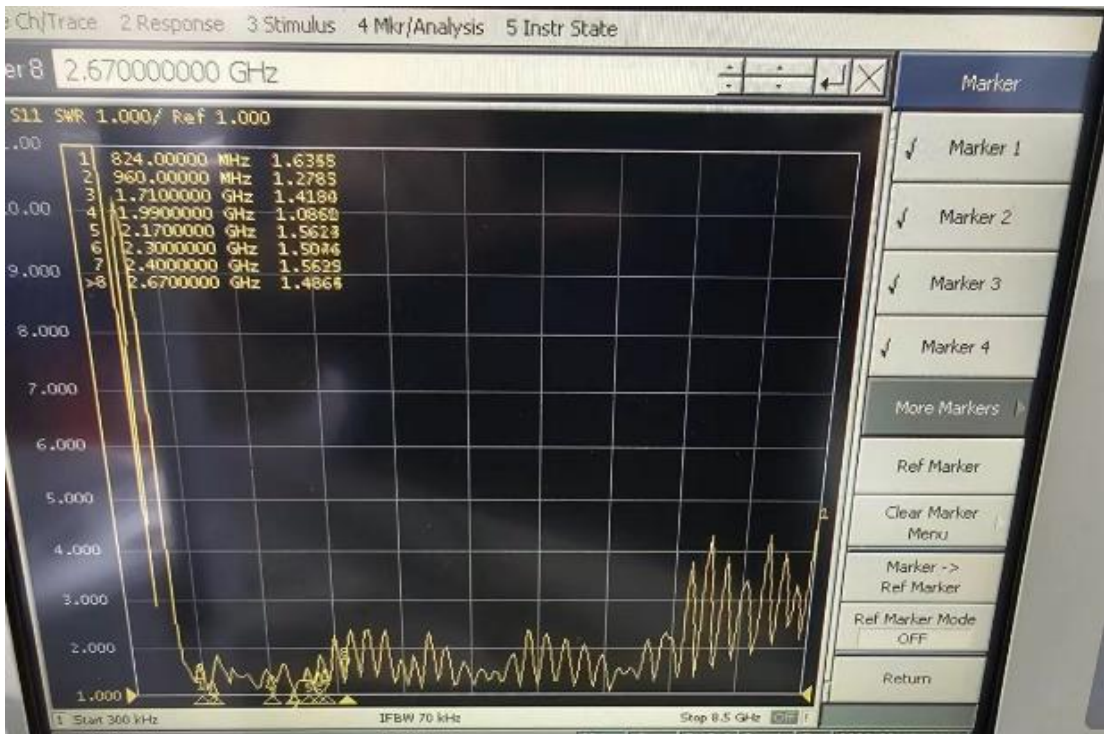
| Product testing parameters  |                            |                     |                 |
|-----------------------------|----------------------------|---------------------|-----------------|
| Product name                | 4G antenna                 | (Model Type)        |                 |
| (Electrical Specifications) |                            |                     |                 |
| (Frenquency Range)          | 824-960MHz<br>1710-2690MHZ | (Polarization)      | perpendicular   |
| (Impedance)                 | 50 ohm                     | Radiation           | Omnidirectional |
| (VSWR)                      | ≦2.0                       | (Power)             | 50W             |
| (Gain)                      | 3dBi                       | (Bandwidth          | 100M            |
| (Mechanical Specifications) |                            |                     |                 |
| (Dimensions)                | 104.99*11.95-+0.3mm        | (Chassis Color)     | Beige           |
| (Connector)                 | IPEX                       | (Cable Length)      | 1.13Black 280MM |
| (Chassis Material)          | ABS                        |                     |                 |
| (Working Temperature)       | -40℃-+85℃                  | (Limit Temperature) | -40℃-+85℃       |

三、 S11(VSWR、 Return、 Smith)

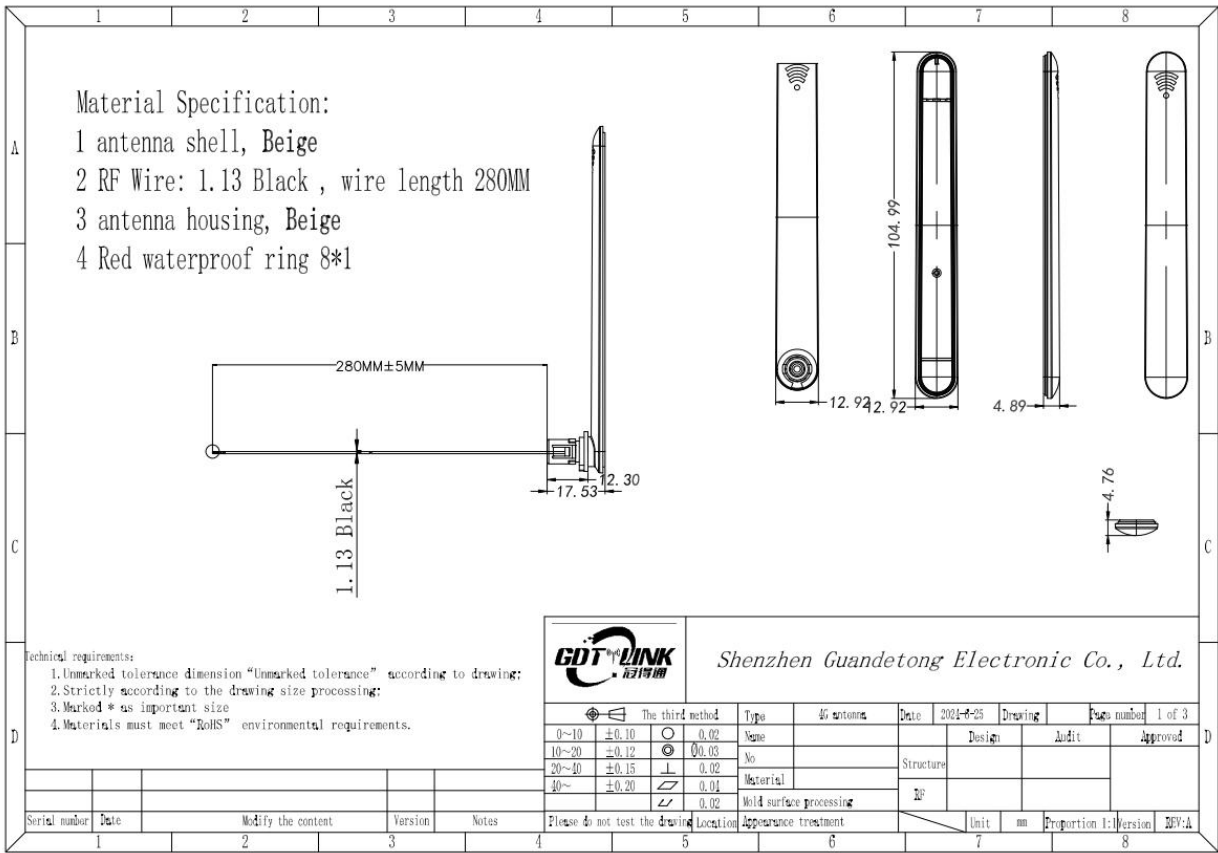
Address: 3/F, Tower D, Huanguan Nanmaoyuan Industrial Park, Guanhu Street,  
Longhua District, Shenzhen. Tel: 0755-88298396 fax: 0755-89733896

<http://www.szgdtrf.com>

Confidentiality requirements of Shenzhen Guanditong Electronic Co. , Ltd. . The company has proprietary technology to provide the information, which should be strictly confidential, it shall not be disclosed to any person or company without the prior written consent of Shenzhen Guanditong Electronic Co. , Ltd. .



四、Structural drawings



Address: 3/F, Tower D, Huanguan Nanmaoyuan Industrial Park, Guanhu Street, Longhua District, Shenzhen. Tel: 0755-88298396 fax: 0755-89733896

<http://www.szgdtrf.com>

Confidentiality requirements of Shenzhen Guanditong Electronic Co. , Ltd. . The company has proprietary technology to provide the information, which should be strictly confidential, it shall not be disclosed to any person or company without the prior written consent of Shenzhen Guanditong Electronic Co. , Ltd. .

## 五、 Environmental performance test

| project                            | Project test conditions                                                                                                                                                                                                                                                                                                                      | Specifications                                                                               |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Storage environment                | <p>The test temperature, humidity and air pressure are as follows when there is no specific condition:</p> <ol style="list-style-type: none"><li>1. The temperature is <math>-30^{\circ}\text{C}\sim+80^{\circ}\text{C}</math></li><li>2. Relative humidity: 45% - 85%</li><li>3. The air pressure is 86kpa-106kpa</li></ol>                 | Normal electrical and mechanical performance                                                 |
| High and low temperature test      | 5 cycles between $70^{\circ}\text{C}$ and $40^{\circ}\text{C}$ , then under normal conditions 1-2H, check the appearance quality.                                                                                                                                                                                                            | <p>The size shall meet the requirements and</p> <p>Mechanical and electrical performance</p> |
| Constant damp heat resistance test | <p>Relative humidity: <math>95 \pm 3\%</math>, test temperature: <math>40^{\circ}\text{C}</math>.<br/>After lasting for 2h,</p> <p>The electrical performance shall be measured within 5 minutes after the test object is taken out, and the test object shall be within the normal range</p> <p>Part 1-2H, check the appearance quality</p> | <p>The size shall meet the requirements and</p> <p>Mechanical and electrical performance</p> |
| vibration test                     | <p>Vibration frequency range: 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude:</p> <p>50.0M/s, frequency sweep cycles: 30 times</p>                                                                                                                                                                                          | Normal electrical and mechanical performance                                                 |
| Drop test                          | Free fall for 3 times in the direction of mutually perpendicular axes at a height of 1M                                                                                                                                                                                                                                                      | Normal electrical and mechanical performance                                                 |

Address: 3/F, Tower D, Huanguan Nanmaoyuan Industrial Park, Guanhu Street,  
Longhua District, Shenzhen. Tel: 0755-88298396 fax: 0755-89733896

<http://www.szgdtrf.com>