



# GPS&BDS Antenna

## TG-15CDE-38A-01

### ● GPS&BDS antenna technical specification:

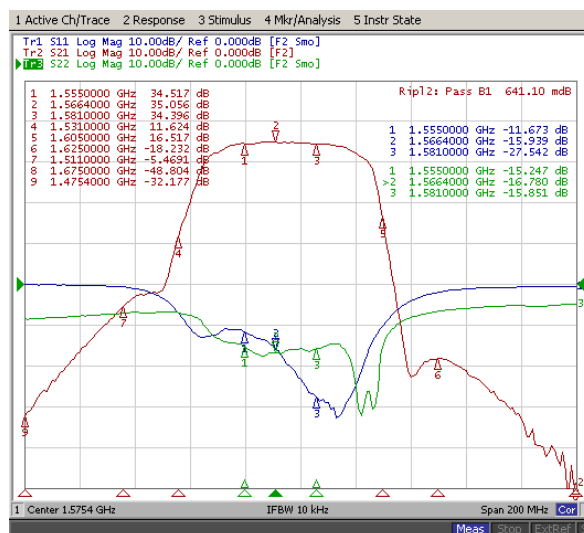
1. Frequency: 1575.42±5 MHz&1561.098±5 MHz
2. Gain: 38 ±2dBi
3. Output VSWR: 2 max
4. Polarization: Right Hand Circular Polarization
5. 3dB beam width: 110 ±10°
6. Axial ratio: 5dB max
7. Front back ratio: 10dB min
8. Out impedance: 50Ω
9. Prime power: DC 4V~6V (via RF cable, central conductor is "+", outside conductor is "-")
10. Power consumption: 45mA max
11. Operation Temperature: -40°C~+75°C
12. Lighting Protection: 8/20μs 5KA according to IEC61000-4-5 standard +/-5times each polarity.
13. Mean Time Between Failures (MTBF)> 100000H
14. ESD imunity: IEC6100-4-2 class 3
15. Connector: N(female)

### ■ LNA specification

1. Frequency: 1556~1581 MHz
2. Gain: 34 ±2dB
3. Pass band Ripple:
  - 1575.42 ±1.023MHz: 1dB max
  - 1575.42 ±5MHz: 2 dB max
  - 1561.098±1.023MHz: 1dB max
  - 1561.098±5MHz: 2 dB max
4. Noise figure: 2dB typ. (2.5dB max)
5. 1dB compression point output: >0dBm
6. Out of Band Rejection:
  - 1575.42 MHz+30 MHz & 1561.098MHz-30 MHz 15dB min
  - 1575.42 MHz+50 MHz & 1561.098MHz-50 MHz 35dB min
  - 1575.42 MHz+100 MHz & 1561.098MHz-100MHz 70dB min

### ■ GPS passive antenna specification

1. Frequency): 1556~1581 MHz.
2. Gain: 4.0 dBi min
3. Polarization): Right Hand Circular Polarization
4. VSWR: 1.5 max
5. impedance: 50Ω



### ● Mechanical Specification

1. Radome material: ASA
2. Dimensions: Φ110×105mm
3. Weight: 0.75Kg
4. Working temperature(°C): -40~+75
5. Anti-wind (Km/h): 135
6. Operation condition: Outdoor application

### ● LIST:

- |             |      |                   |      |
|-------------|------|-------------------|------|
| 5.1 antenna | 1pcs | 5.2 Instruction   | 1pcs |
| 5.3 Washer  | 4pcs | 5.4 Spring washer | 4pcs |
| 5.5 Bolt    | 4pcs |                   | 1pcs |

### ● Package Standard

1. Dimensions: 70\*45\*66 CM
2. Quantity : 16 PCS in a box
3. Weight: 14.5KG

### ● Accord:ROHS

**Tongyu Communication INC**

No.9-1, Torch Road, Torch Hi-Tech Industrial Development Zone, Zhongshan, Guangdong, China  
Tel: +86 (0)760 85312812 Fax: +86 (0)760 85594662 Web: [www.tycc.cn](http://www.tycc.cn)