

# Test Report

## for GPS L1/GLONASS L1/BEIDOU 1 TIME SERVICE ANTENNA



Model: HXAT0GGBATS50F

**Chengdu HAIKIN MICROWAVE Technology Co., Ltd**

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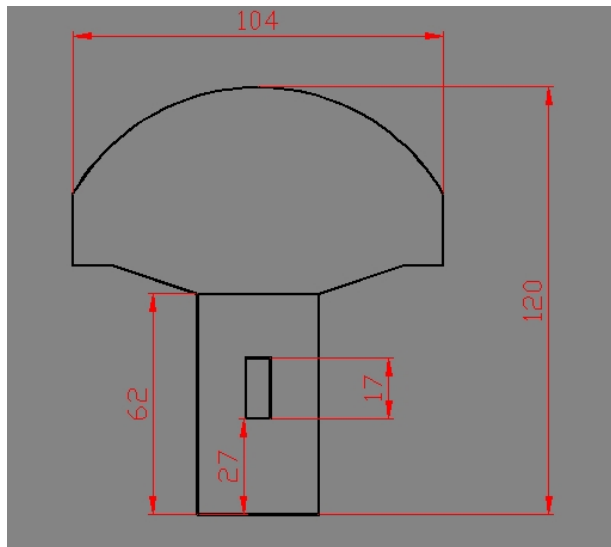
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## Specification

1. Frequency: GPS L1:1575.42MHz±5MHz  
GLONASS L1:1602MHz±8MHz  
BD1:2491.75MHz±4MHz
2. Pattern:  
Azimuth: Omnidirectional  
Elevation: Hemispherical
3. LNA Gain: 47dB±2dB
4. Polarization: Right-hand circular
5. AR: ≤4dB
6. Noise: ≤2dB
7. Impedance : 50 Ω
8. VSWR : ≤2:1
9. Power requirements: Voltage: 5~12VDC  
Current: ≤40mA
10. Connector: TNC female
11. Operating Temperature : -40℃~+85℃
12. Store Temperature : -55℃~+85℃
13. Weight: ≈ 250 g
14. Size: Φ105×120mm



## Test Instruments

Agilent 83630B  
HP8563E  
HP8720D

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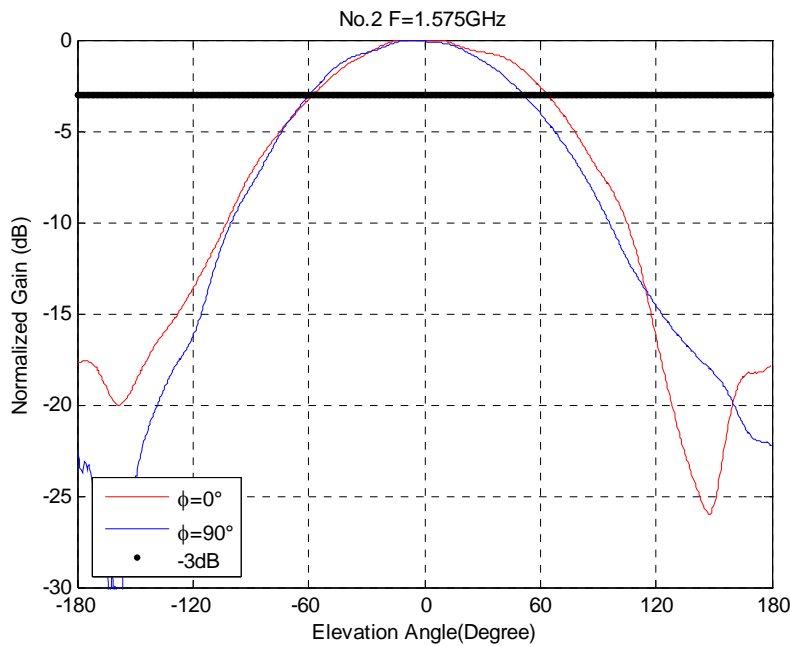
## Test Results

### 1. Gain

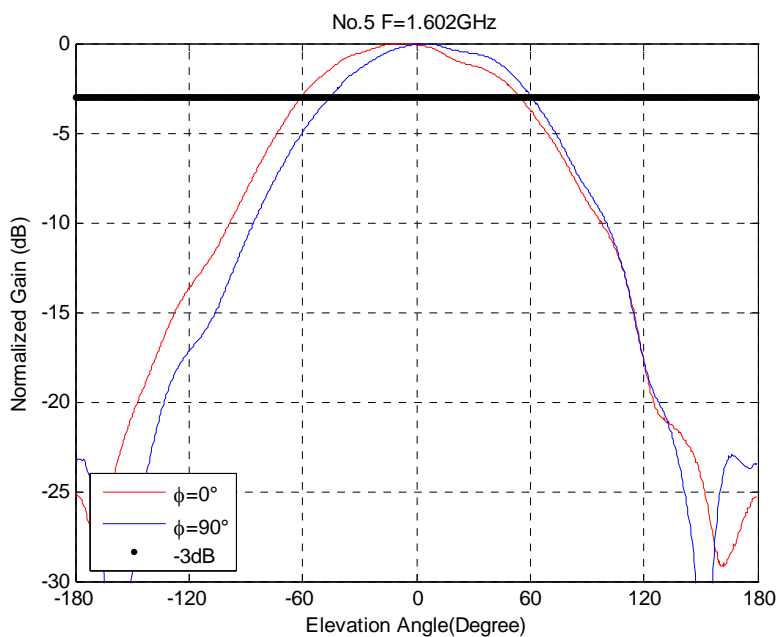
| Frequency (GHz) | Gain (dBic) |
|-----------------|-------------|
| 2.492           | 50.6        |
| 1.575           | 49.8        |
| 1.602           | 50.1        |

### 2. Pattern

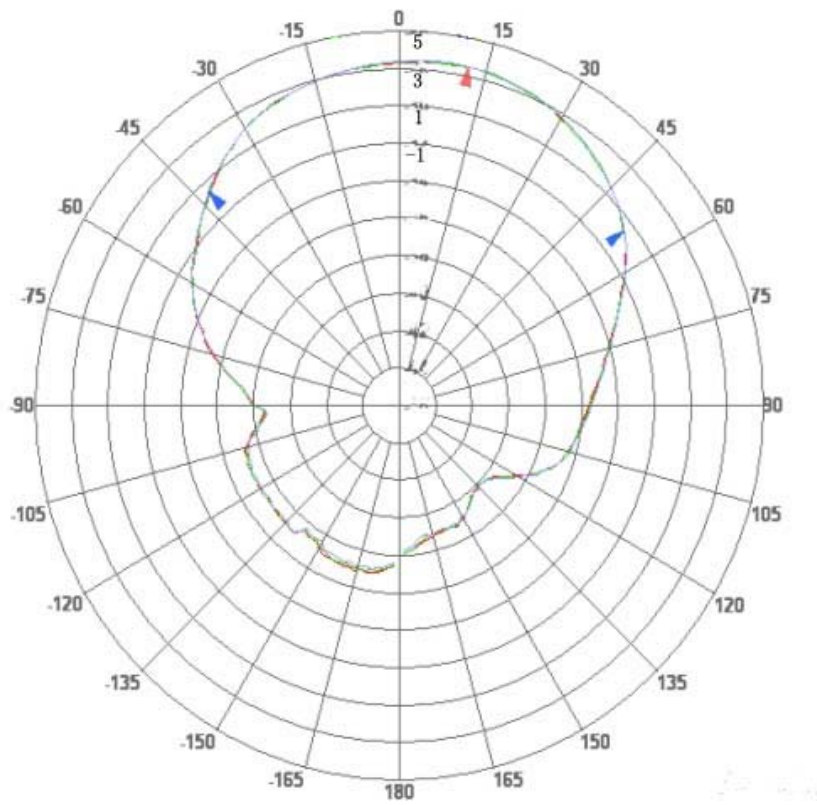
1575MHz



1602MHz



2492MHz



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