

Test Report

for GPS L1/L2 GLONASS L1/L2 SURVEY ANTENNA



Model: HXAT00GGDSU40E

Chengdu HAIKIN MICROWAVE Technology Co., Ltd

Add: Chengdu 610091, China

Tel: +86-28-87089208

Website: www.hxmicrowave.com

Fax: +86-28-87089208

Email: sale@hxmicrowave.com

Specification

1. Frequency: GPS L1:1575.42MHz±10MHz L2:1227.6MHz±10MHz
 GLONASS L1:1206MHz±8MHz L2:1246MHz

2. Pattern:

 Azimuth: Omnidirectional

 Elevation: Hemispherical

3. Antenna relative elev.pattern:

	L1	L2
$\theta = 0^{\circ}$ (zenith)	6dBic	5dBic
$0^{\circ} < \theta \leq 70^{\circ}$	> -0.5dBic	> -1.5dBic
$70^{\circ} < \theta \leq 85^{\circ}$	> -4 dBic	> -5 dBic
$85^{\circ} < \theta \leq 90^{\circ}$	> -4 .5dBic	> -5.5 dBic

4. LNA Gain: 37dB±2dB

5. L1-L2 differential Propagation delay: ≤ 10 nsec

6. Polarization: Right-hand circular

7. AR: ≤ 4 dB

8. Noise: ≤ 2 dB

9. Impedance : 50 Ω

10. VSWR : $\leq 2:1$

11. Power requirements: Voltage: 3~5VDC
 Current: ≤ 70 mA

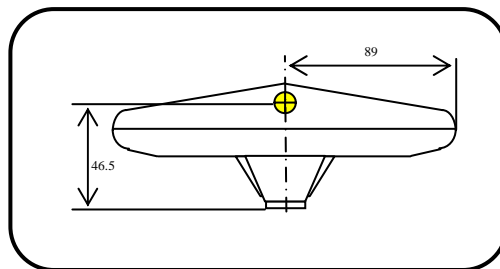
12. Connector: TNC female

13. Operating Temperature : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

14. Store Temperature : $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$

15. Weight: ≈ 500 g

16. Size: $\Phi 178\text{mm} \times 67\text{mm}$



Test Instruments

Agilent 83630B
HP8563E
HP8720D

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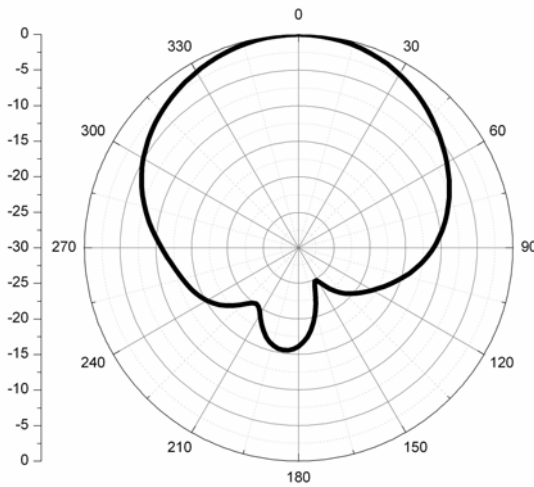
Test Results

1. Gain

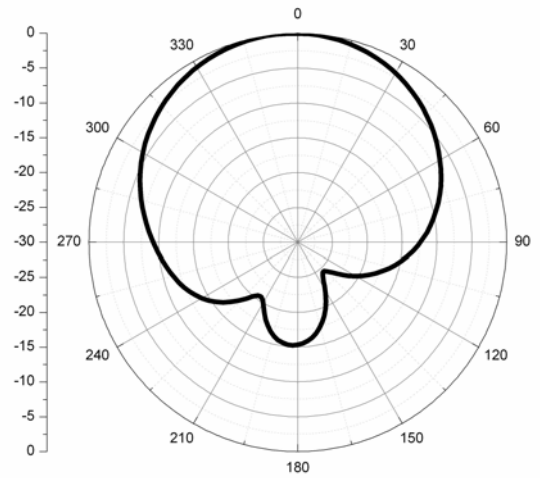


Frequency (GHz)	Gain (dBic)
1.575	43
1.227	42
1.602	42.8
1.246	41.9

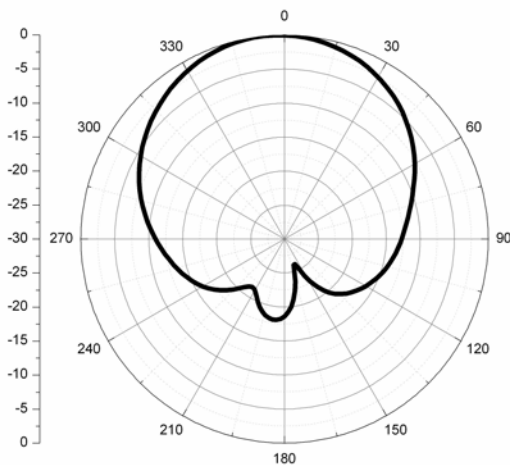
2. Pattern



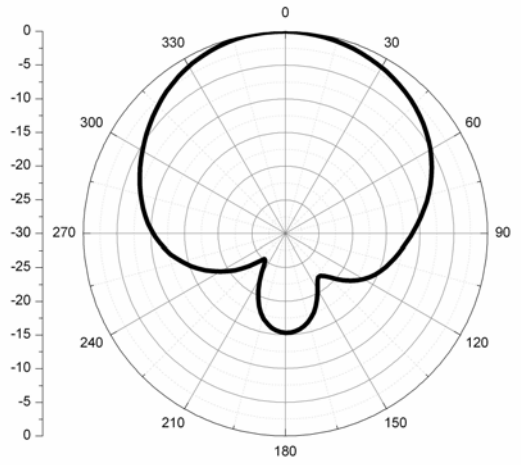
Feq:1227MHz



Feq:1246MHz



Feq:1575MHz



Feq:1602MHz