

Test Report

for GPS L1 SURVEY ANTENNA



Model: HXAT000GASU40E

Chengdu HAIXIN 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±5MHz

2. Pattern:

Azimuth: Omnidirectional

Elevation: Hemispherical

3. Antenna relative elev.pattern:

	L1
$\theta = 0^\circ$ (zenith)	7dBic
$0^\circ < \theta \leq 70^\circ$	> -2dBic
$70^\circ < \theta \leq 85^\circ$	> -6dBic
$85^\circ < \theta \leq 90^\circ$	> -7.5dBic

4. LNA Gain: 37dB±2dB

5. Polarization: Right-hand circular

6. AR: ≤3dB

7. Noise: ≤1.5dB

8. Impedance : 50 Ω

9. VSWR : ≤2:1

10. Power requirements: Voltage: 3~5VDC

Current: ≤20mA

11. Connector: TNC female

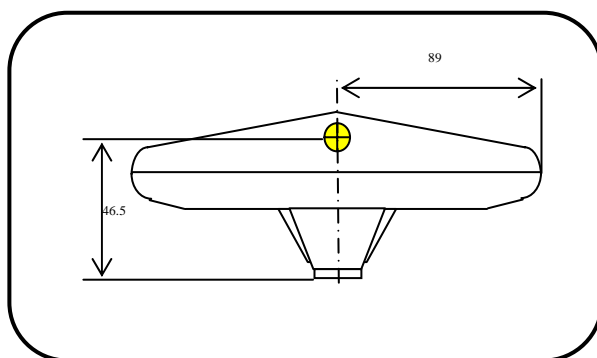
12. Operating Temperature : -40℃~+85℃

13. Store Temperature : -55℃~+85℃

14. Weight: ≈ 350 g

15. Size: Φ178mm×67mm

16. error of Phase Center: ±2mm



Test Instruments

Agilent 83630B

HP8563E

HP8720D

Chengdu HAIXIN MICROWAVE Technology Co., Ltd

Add: Chengdu 610091, China

Tel: +86-28-87089208

Website: www.hxmwave.com

Fax: +86-28-87089208

Email: sale@hxmwave.com

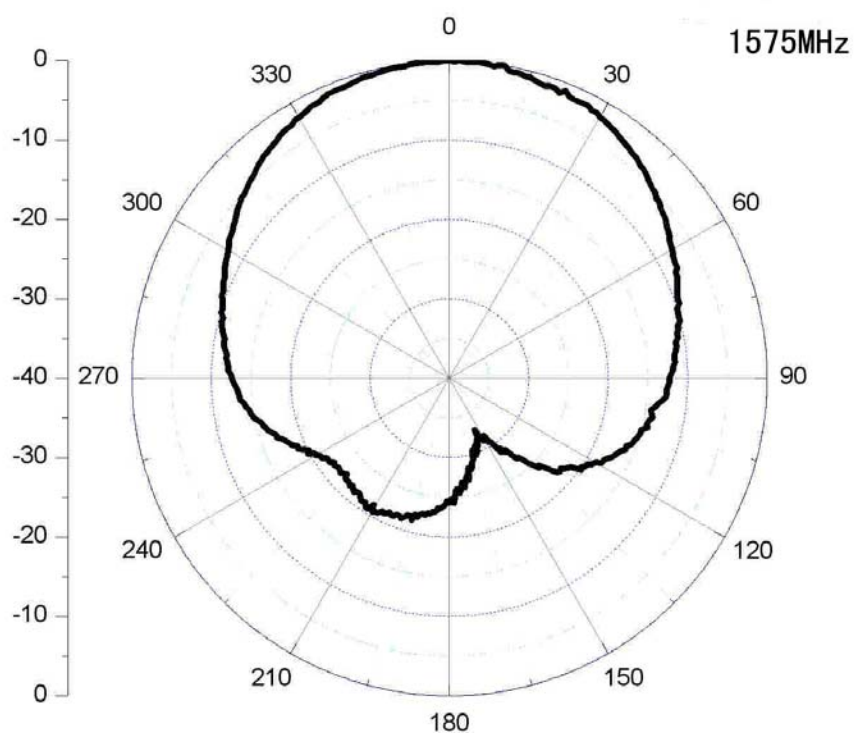
Test Results

1. Gain

Frequency (GHz)	Gain (dBic)
1.575	43.8



2. Pattern



Chengdu HAIXIN MICROWAVE Technology Co., Ltd

Add: Chengdu 610091, China

Tel: +86-28-87089208

Website: www.hxmicrowave.com

Fax: +86-28-87089208

Email: sale@hxmicrowave.com