# 深圳市千目通讯科技有限公司

Shenzhen Qianmu Communication Technology Co.,Ltd.

# **Antenna Acknowledgement**

XY07-GPS

**Applicable** 

model

Customer							
Specification de	scription						
	Product	content	s	pecifications			Customer Iterial code
Specification description	GPS a	ntenna	GPS antenna	n/25*25*4mm/IPEX I	/L=58mm		
Change resume							
Serial number	Date			Edition		Brief description of the change content	
1	2023-08-24			V1.0		New project	
2							
3							
Supplier sample	e confirmatio	n					
Research and develop O		Org	ganization	Check		Decide	
				PASS <b>☑</b> FAIL□			
Customer samp	ole confirmat	ion					
Electron	Organ	ization	Project	Purchase	Char	acter	Check
Reasons for re	jection or ot	her precau	ntions:		1		,

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#### 1. Product application

Ceramic antennas are mainly used for receiving. Beidou, GPS satellite signal is used to provide high-precision positioning services for aviation, navigation, communication, personnel tracking, consumer entertainment, surveying and mapping, timing, vehicle monitoring management, vehicle navigation and information services. It has the characteristics of high gain and stability; it is suitable for vehicle positioning, navigator, personal wear, handheld, drone and other civil products.

#### 2. Antenna characteristics

Technical requirements	Technical indicators	Remarks
Range Of Receiving Frequency	Beidou B1: 1 561.089MHz ±2.046Megahertz GPS L1: 1575.42MHz ±1.023MHz	
Center Frequency		
Gain at Zenith	3.0dBi	At30*30 mmTest on the grounding plate
Gain at 10° Elevation	/	At30*30 mmTest on the grounding plate
Output VSWR	<1.5	Central frequency
Impendance	50Ω	
Band Width	±2.5Megahertz	Return Loss≤-10dB Return of damage≤- 10dB
Polarization	Right-hand circular polarization (RHCP)	
Axis ratio	<5dB	Central frequency
Horizontal coverage angle	360°	

#### 3. Built-in antenna indicators

Technical requirements	Technical indicators	
Gain (excluding feeders)	18±3dB (LNA Gain only)	
Noise figure	<1.2dB (LNA only)	
Output VSWR	<2	
Output impedence	50Ω	
Passband Ripple	$\pm$ 1.0dB (LNA only)	
1dB compression point output	>-10dBm (LNA only)	
Prime power	2.8~3.5V	
Operating current	8~12 Master of Arts	

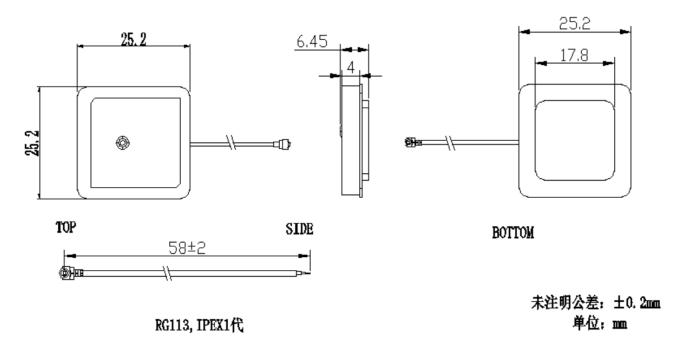
## 4. Working environment

Operational Temperature	-25°C~+75°C	
Storage Temperature	-40°C∼+85°C	
Wet degree	40%~95%	

### 5. Structural characteristics

Size	25.3*25.3*6.5	
Cable	RG113	
Length	58	
Connector	IPEX1Act for	

#### 6. Structure and physical diagram



Unit:Mm

### 7. Precautions for product use

- 7.1 Pay attention to moisture and moisture resistance during the use of the product; ensure the installation direction and flatness of the antenna on the machine; Good welding.
- 7.2 Before using the product, ensure that the actual test effect, product size specifications, etc. have been confirmed;
- 7.3 The front of the product should be installed in front of the sky as much as possible to ensure good reception of satellite signals.