

Product name	GPS BD time service antenna	Product part number	GL111
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Product Specification



一、 Overview: Low noise amplification gain with high gain-to-noise ratio; excellent circular polarization axis ratio and gain bandwidth; aesthetically pleasing appearance with superior waterproofing, corrosion resistance, and high-temperature tolerance.

二、 antenna performance

1、 GPS Technical Specifications of Dielectric Antenna

technical requirement	qualification
Frequency (MHz)	1575.42 ± 5 1561.098 ± 2.046
Gain (dBi)	≥ 4
Output VSWR(dB)	≤ 1.5
Polarization	RHCP
Impedance (Ω)	50

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GLOBAL EAST ASIA(Hong Kong) TECHNOLOGY CO.,LTD

2、antenna performance

technical requirement	qualification
Range Of Receiving Frequency (MHz)	1575.42±5 1561.098±2.046
Polarization	RHCP
Gain (dBi)	38±2
Axis ratio (dB)	< 4.5@center frequency
3dB beam width (°)	110±10
Output VSWR	≤ 2.0:1
Output impedance (ohm)	50
Out of band rejection (dBc)	1575+30 MHz /1561-30 MHz: 12 dBc min
	1575+50MHz/1561-50MHz: 35 dBc min
	1575+100MHz/1561-100MHz: 70 dBc min
LNA NF	≤2.7dB 20℃下 test
LNA Output VSWR	<2:1
1dB compression point output (dBm)	>-10dBm (仅 LNA)
Operating current (mA)	< 20
Prime power (V)	3~6

3、work environment

Relative Humidity (%)	5~90
Operating Temperature (°C)	-40~ +80
Store Temperature (°C)	-40~ +90
Operation Environment	Outdoor, Meet IP67 , Capable of resisting salt fog, humidity, sulfur dioxide in the atmosphere, and ultraviolet radiation

4、 structural property

Dimension (mm)	Refer to structural drawings
Connector	N-K

