

## GPS antenna, Car Antenna, Active Antenna

### Specifications :

#### 1. Environmental

Item	JGA002 Series
Operating Temperature	-40 to + 85℃
Operating Humidity	10 to 95% RH
Storage Temperature	-40 to + 90℃
Storage Humidity	10 to 95% RH

#### 2. Electrical

\* All value are defined at 25±15℃ ,65±20 % RH, power handling 1 u watt, air pressure 960 ±100 HPA unless

\* Patch characteristics are measured with 70x70 mm ground plane in an anechoic chamber.

##### (1) Patch

Characteristics	Specification
Center Frequency	1575.42±1.023 MHz (when covered with a radome and measured by LNA ground plane)
Bandwidth (10dB return loss)	10 MHz min
Gain at Zenith	5.0 dBic typ
Gain at 10o elevation	- 1.0 dBic min
Polarization	R.H.C.P
Axial Ratio	3.0 dB typ

##### (2) Filter/LNA

Characteristics	Specification	
Center Frequency	1575.42 ±1.023 MHz	
Gain	28 dB typ	
Noise Figure	1.5dB (max)	
Filer Out band attenuation	<b>Dielectric</b>	<b>SAW</b>
	20dB min. $f_0 \pm 50\text{MHz}$ 30dB min. $f_0 \pm 100\text{MHz}$ ( $f_0=1575.42\text{ MHz}$ )	0.1~1525MHz min:37dB 1625~6000MHz min:30dB
Output V.S.W.R	1.6 max	
Voltage	DC =2.7~5.3V	
Current	10mA±1mA(DC=3.0V)	