

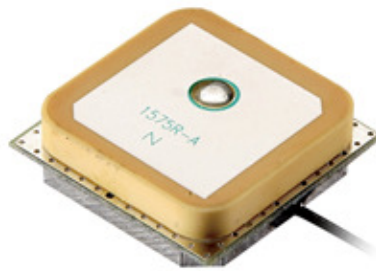


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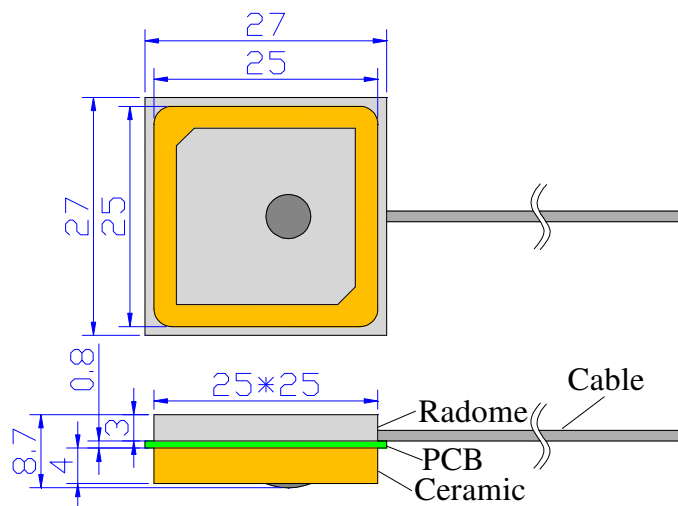
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## GPS+GLONASS Antenna

Model: AGGL051



### 2 Dimension (Unit: mm)



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### 3 Electrical Characteristics

#### 3.1 Dielectric Antenna

Form 1

No.	Item	Specifications	Post Environmental Tolerance
1	Center Frequency (MHz)	1590 MHz/1575.42MHz	$\pm 3$ MHz
2	Band Width (MHz)	$\pm 5$ MHz	$\pm 1$ MHz
3	V.S.W.R (in BW)	1.5 : 1	—
4	Gain (Zenith)	3 dB	$\pm 0.5$ dB
5	Polarization	RHCP	—
6	Impedance	50 $\Omega$	—

#### 3.2 LNA/Filter

Form 2

No.	Item	Specifications	Post Environmental Tolerance
1	LNA Gain	$28 \pm 2$ dB	$\pm 2.5$ dB
2	Noise Figure	1.5 dB	—
3	Filter Out Band Attenuation	12dB Min f0+50MHz 16dB Min f0-50MHz	$\pm 1.0$ dB
4	DC Voltage	2.2~5 V	
5	DC Current	5~15 mA	

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### 3.3 Mechanical

Form 3

No.	Item	Specification
1	Cable	RF1.13/RG178/RG174 or others
2	Connector	uFL/MMCX or others
3	Mounting	Internal

## 4 Reliability

Condition: Temperature:  $40 \pm 5^\circ\text{C}$

Load: DC=5V  $\pm 0.5$  V

Quantity: 2000pcs

Sustained Time: 480h

## 5 Environmental Specifications

Post Environmental Tolerance (Refer to the form 1~2 )

Condition: Temperature range  $25 \pm 3^\circ\text{C}$

Relative Humidity range 55~75%RH

Operating Temperature range  $-40^\circ\text{C} \sim +85^\circ\text{C}$

Storage Temperature range  $-40^\circ\text{C} \sim +100^\circ\text{C}$

### 5.1 Moisture Proof

The device should satisfy the electrical characteristics specified in form 1~2 after exposed to the temperature  $40 \pm 2^\circ\text{C}$  and the relative humidity 90~95% RH for 96 hours and 1~2 hours recovery time under normal condition.

### 5.2 Vibration Resist

The device should satisfy the electrical characteristics specified in form 1~2 after applied to the vibration of 10 to 55Hz with amplitude of 1.5mm for 2 hours each in X , Y and Z directions.

### 5.3 Drop Shock

The device should satisfy the electrical characteristics specified in form 1~2 after dropping onto the hard wooden board from the height of 30cm for 3 times each facet of the 3 dimensions of the device.

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#### 5.4 High Temperature Endurance

The device should satisfy the electrical characteristics specified in form 1~2 after exposed to temperature  $80 \pm 5^\circ\text{C}$  for  $24 \pm 2$  hours and 1~2 hours recovery time under normal temperature.

#### 5.5 Low Temperature Endurance

The device should also satisfy the electrical characteristics specified in form 1~2 after exposed to the temperature  $-40^\circ\text{C} \pm 5^\circ\text{C}$  for  $24 \pm 2$  hours and to 2 hours recovery time under normal temperature.

#### 5.6 Temperature Cycle Test

The device should also satisfy the electrical characteristics specified in form 1~2 after exposed to the low temperature  $-25^\circ\text{C}$  and high temperature  $+85^\circ\text{C}$  for  $30 \pm 2$  min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

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