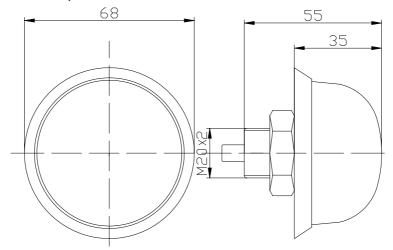


GPS Active Antenna

Model : GPS-ANT601



- ¹ Part Number GPS-ANT601
- 2 Dimension (Unit : mm)



3 Electrical Characteristics

3.1 Dielectric Antenna

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

3.2 LNA/Filter

Form 2

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

3.3 Mechanical

Form 3

No.	Item	Specification	
1	Cable	RG58 3m/5m or others	
2	Connector	SMA/SMB/MCX or others	
3	Plastic Housing	Black	
4	Mounting	Screw	

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4 Reliability

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

Load: DC=5V \pm 0.5 V

Quantity: 2000pcs

Sustained Time: 480h

5 Environmental Specifications

Post Environmental Tolerance (Refer to the form $1 \sim 2$)

Condition : Temperature range 25 ± 3 °C

Relative Humidity range 55~75%RH Operating Temperature range -40 °C~+85°C Storage Temperature range -40 °C~+100 °C

5.1 Moisture Proof

The device should satisfy the electrical characteristics specified in form $1\sim2$ after exposed to the temperature 40 ± 2 °C and the relative humidity 90~95% RH for 96 hours and $1\sim2$ hours recovery time under normal condition.

5.2 Vibration Resist

The device should satisfy the electrical characteristics specified in form $1\sim2$ 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 $1\sim2$ after dropping onto the hard wooden board from the height of 30cm for 3 times each facet of the 3 dimensions of the device. 5.4 High Temperature Endurance

The device should satisfy the electrical characteristics specified in form $1\sim2$ after exposed to temperature $80\pm5^{\circ}$ C for 24 ± 2 hours and $1\sim2$ hours recovery time under normal temperature. 5.5 Low Temperature Endurance

The device should also satisfy the electrical characteristics specified in form $1\sim2$ after exposed to the temperature $-40^{\circ}C \pm 5^{\circ}C$ for 24 ± 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 $1\sim2$ after exposed to the low temperature -25° C and high temperature $+85^{\circ}$ C for 30 ± 2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

6 Weatherproof

Put the antennas in 1m deep water for 12h, and find 100% waterproof.