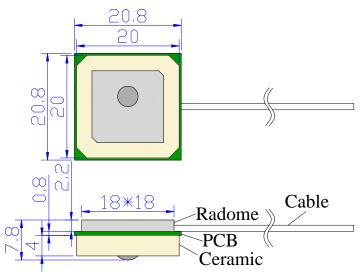


## **GPS Internal Passive Antenna**

Part Number: VTGPSIP-6



1. Dimension (Unit: mm)



- 2. Electrical Characteristics
- 2.1 Dielectric Antenna

Form 1
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No.	Item	Specifications	Post Environmental Tolerance
1	Center Frequency (MHz)	1575.42 MHz	±3 MHz
2	Band Width(MHz)	±5 MHz	±1 MHz
3	V.S.W.R(in BW)	1.5 : 1	—
4	Gain (Zenith)	0 dB	±0.5 dB
5	Polarization	RHCP	—
6	Impedance	50 Ω	_



## 2.2 Mechanical

Form 2

No.	Item	Specification
1	Cable	RF1.13 or others
2	Connector	IPEX or others
3	Mounting	Internal

3 Reliability

Condition: Temperature: 40±5℃

Load: DC=5V±0.5 V Quantity: 2000pcs Sustained Time: 480h

4 Environmental Specifications

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

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

## 4.1 Moisture Proof

The device should satisfy the electrical characteristics specified in form 1~2 after exposed to the temperature  $40\pm2$ °C and the relative humidity 90~95% RH for 96 hours and 1~2 hours recovery time under normal condition.

4.2 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. 4.3 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.

4.4 High Temperature Endurance

The device should satisfy the electrical characteristics specified in form 1~2 after exposed to temperature  $80\pm5^{\circ}$  for 24±2 hours and 1~2 hours recovery time under normal temperature. 4.5 Low Temperature Endurance

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

## 4.6 Temperature Cycle Test

The device should also satisfy the electrical characteristics specified in form  $1\sim2$  after exposed to the low temperature  $-25^{\circ}$ C and high temperature  $+85^{\circ}$ C for  $30\pm2$  min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.