

## GPS Internal Active Antenna

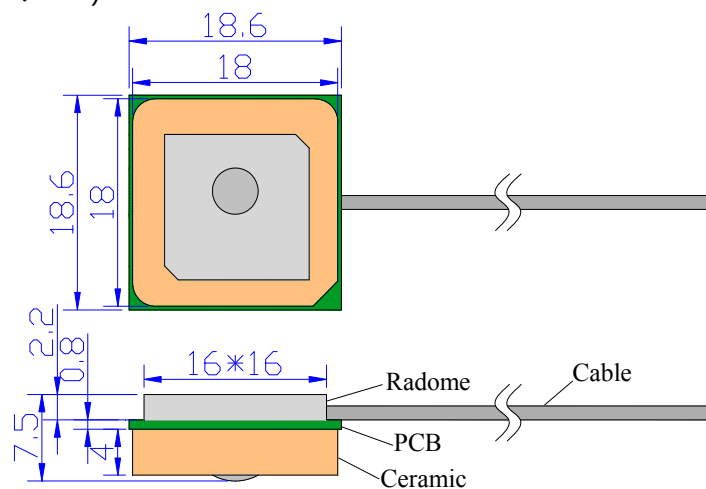
Model : GPS-ANT048



1. Part Number

## GPS-ANT048

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    | ± 3 MHz                      |
| 2   | Band Width ( MHz )       | ± 5 MHz        | ± 1 MHz                      |
| 3   | V.S.W.R( in BW )         | 1.5 : 1        | —                            |
| 4   | Gain ( Zenith )          | 2 dB           | ± 0.5 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 | 30dB Min f0+40MHz<br>30dB Min f0-40MHz<br>40dB Min f0+100MHz<br>35dB Min f0-100MHz | ± 1.0 dB                     |
| 4   | DC Voltage                  | 3~5 V  |                              |
| 5   | DC Current                  | 5~10 mA  |                              |

#### 3.3 Mechanical

Form 3

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

#### 4 Reliability

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

Load: DC= $5\text{V} \pm 0.5\text{V}$

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.

##### 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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