

## GPS / GNSS Internal Antenna

**Product Number:ATIG1040-1**

### 1、SCOPE

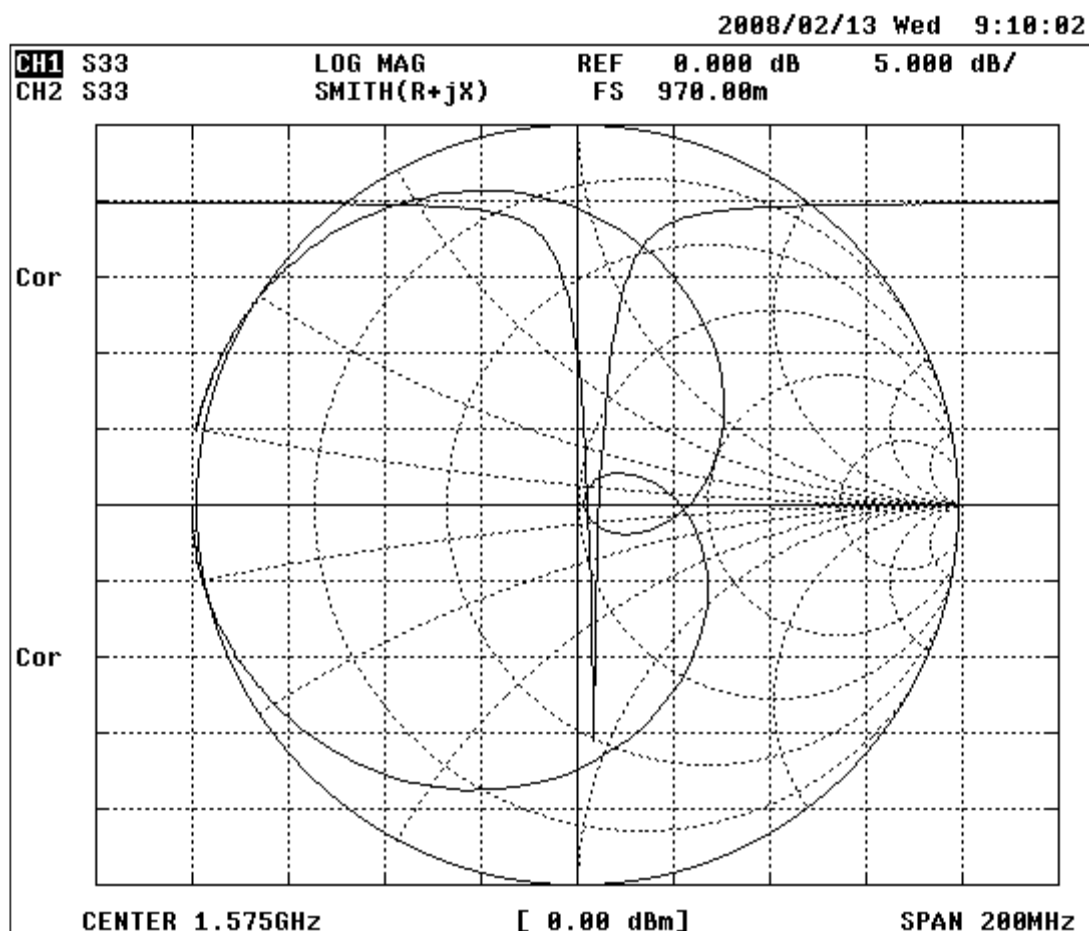
This product can be used as various GPS receivers navigation, GPS clock, positioning.

### 2、OVERALL PERFORMANCE(Antenna Element, LNA & Cable)

CHARACTERISTICS	SPEC
Center Frequency	1575.42±1.023MHz (When the antenna are placed on the customer's device inside)
Voltage	DC 2.7 - 5.0V
Current	5mA max
Gain	15dB typ
Noise Figure	2.0dB max
Bandwidth(10dB return loss)	5 MHz min
Output VSWR	2.0 max
Output Impedance	50ohm
Dimensions	10mm(L)×10mm(W)×6.5mm(H) typ
Weight	6±2g(typ)
Cable	60±2mm (Φ=1.13mm)
Connector	IPEX ( Pull=0.4Kg )

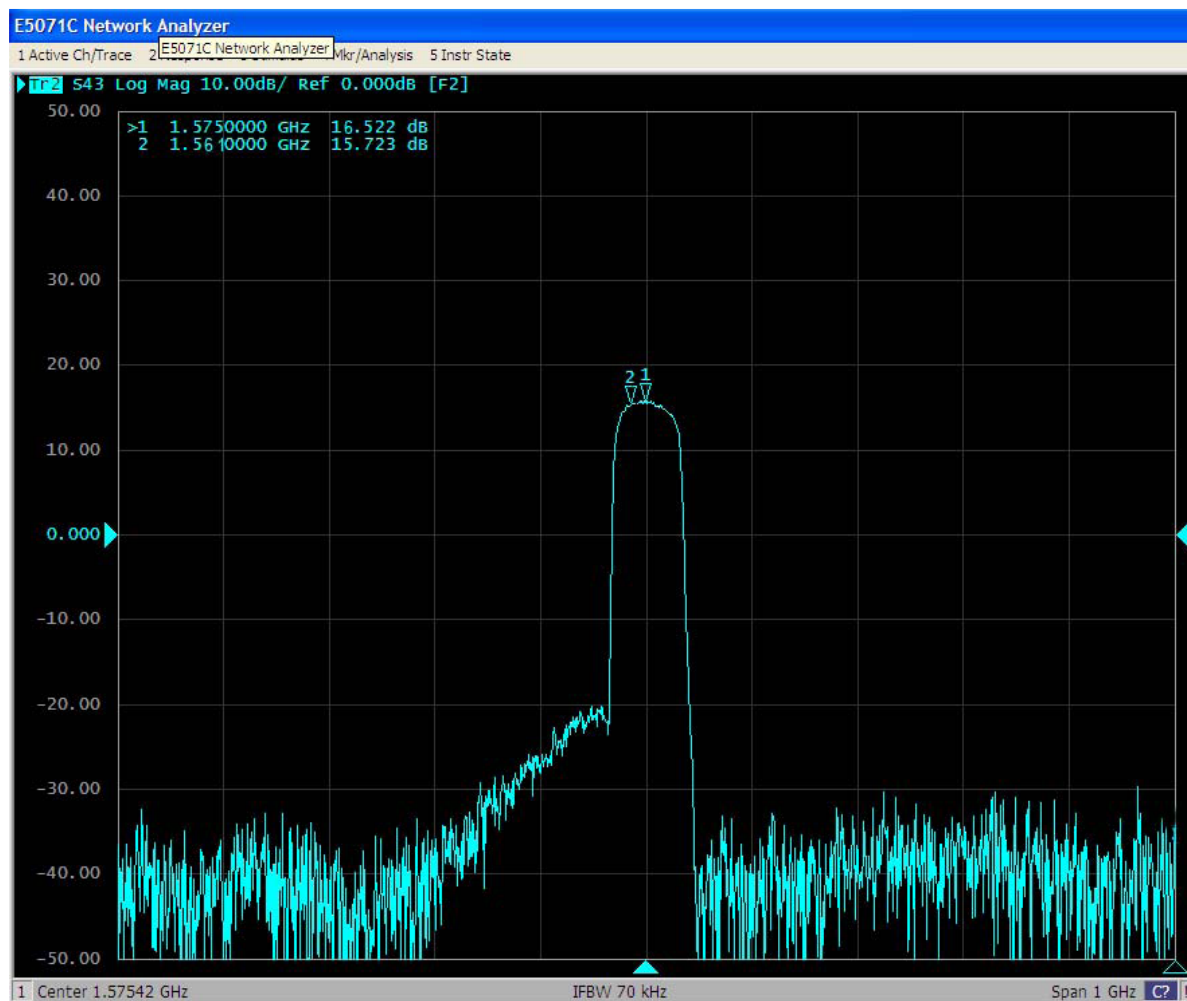
## 3 、 Patch antenna

CHARACTERISTICS	SPEC
Dimensions	10mm(L)×10mm(W)×4mm(H) typ
Center Frequency	1575±1MHz (12mm(L)×12mm(W) Ground)
Bandwidth(10dB return loss)	1575±1MHz min
Peak Gain	-2 dB typ
Output V.S.W.R	2.0dB max
Output Impedance	50ohm
Polarization	R.H.C.P

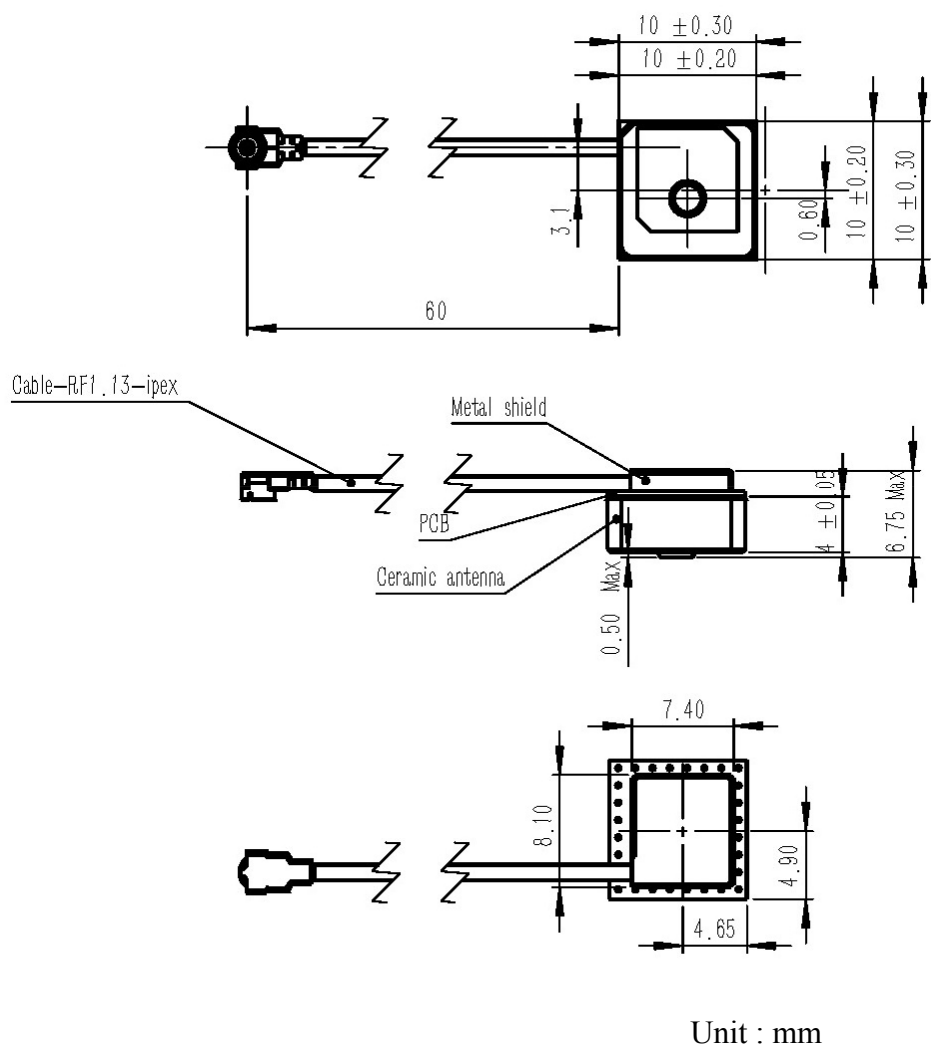


## 4、LNA/Filter

CHARACTERISTICS	SPEC
Voltage	DC 2.7- 5.0V
Current	5mA max
Center Frequency	1575.42±1.023MHz
Gain	15.0±2dB typ
Noise Figure	1.5dB max
Filter(Out of band attenuation)	SAW filter 30dB min fo±60MHz (fo=1575MHz)
Output V.S.W.R	2.0 max



## 5、ANTENNA DIMENSIONS



## 6、OPERATING CONDITION

Temperature	-40℃ to +85℃
Humidity	10% to 95% RH

## 7、STORAGE CONDITION

Temperature	-40℃ to +85℃
Humidity	10% to 95% RH

## 8 、 Note

8.1 、 This product specification guarantees the quality of our product as a single unit. Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.

8.2 、 We cannot warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.

8.3 、 The product will get free warranty for one year since the date of purchase users operate in the correct way; users will have to pay cost of the materials and maintaining fee out of the condition.