

**GPSGLONASS03D-S6-30-A**

## **Specification**

<b>Product Name</b>	<b>INPAQ RF Active Antenna</b>
<b>Series/PN</b>	<b>GPSGLONASS03D-S6-30-A</b>

PN : GLONASS03D-S6-30-A

**1. Application:**

This product shall be applied as an antenna unit in positioning or timing system application.

**2. Appearance:**

Antenna Unit (with radome, connector, and cable - refer to an attached drawing)

Dimensions	34.5*37.5*12.5 mm
Radome	#D
Connector	FAKRA SMB Female C Code
Cable	RG174 / 3M
Magnet	YES
Adhesive	NA
Label	YES
Weight	66g typ.
Water Proof	IPX7

**3. Operating Condition:**

Temperature	-40 ~ 85 °C
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**4. Storage Condition:**

Temperature	-40 ~ 85 °C
Humidity	30 ~ 90% RH

**5. Electrical Specification:**

\* All value are defined at 25±15 °C, 65±20% RH, power handling 1 u watt, air pressure 960±100 HPA unless otherwise noted.

\* Patch characteristics are measured with 70\*70mm test ground plane in an anechoic chamber.

■ Patch Specification

Characteristics	Specification	
Frequency Range	1575~ 1610 MHz	
Gain(Zenith)	1575.42 MHz	2.4 dBic
	1602 MHz	2.85 dBic
Polarization	R.H.C.P	
VSWR	2 typ.	
Impedance	50 ohm	

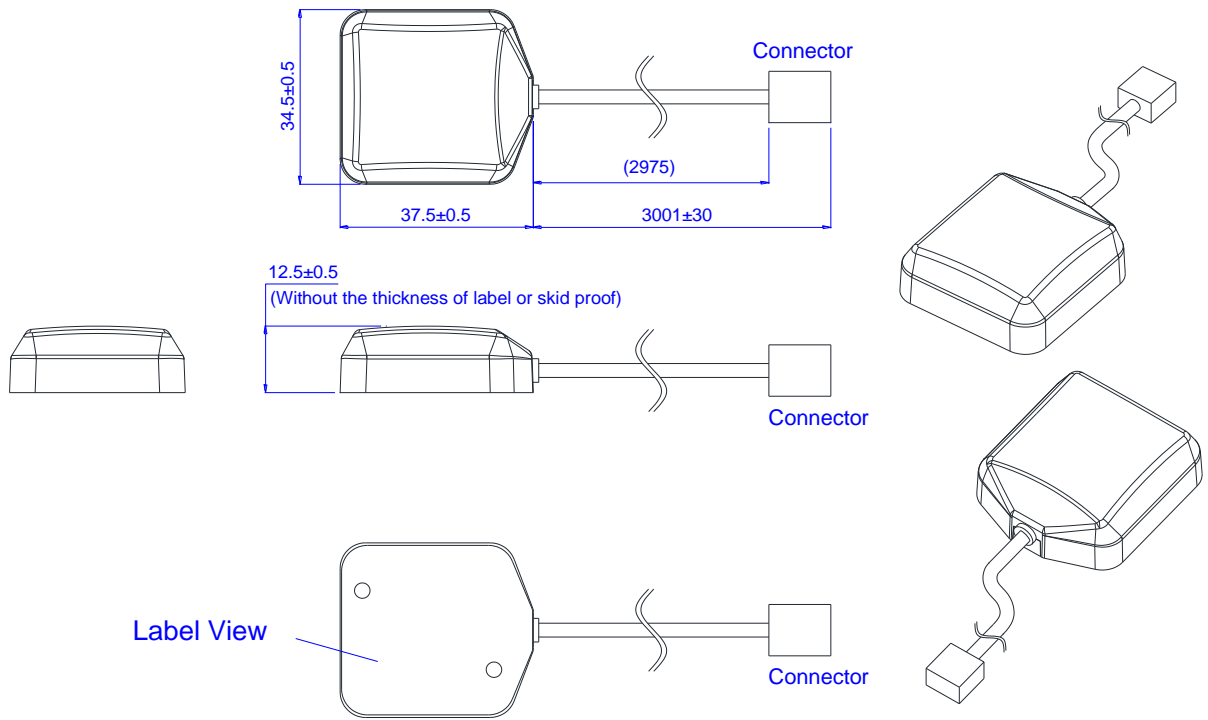
■ Filter/LNA Specification

Characteristics	Specification		
Frequency Range	1575~1602 MHz		
Gain	1575.42 MHz	26±3 dB (at 3.0V)	
		30±3 dB (at 5.0V)	
	1602 MHz	25±3 dB (at 3.0V)	
		29±3 dB (at 5.0V)	
Noise Figure	1575.42 MHz	2.5 dB typ.	
	1602 MHz	2.7 dB typ.	
Filter Out Band Attenuation	F <sub>1</sub> = 1575.42 MHz	F <sub>1</sub> -50 MHz	< 30 dB
		F <sub>1</sub> -100 MHz	< 30 dB
	F <sub>2</sub> = 1602 MHz	F <sub>1</sub> +50 MHz	< 40 dB
		F <sub>1</sub> +100 MHz	< 40 dB
Output V.S.W.R	2.0 max		
Operation Voltage	3.0~5.0 V		
Current	8±3 mA (at 3.0 V)		
	16±3 mA (at 5.0 V)		

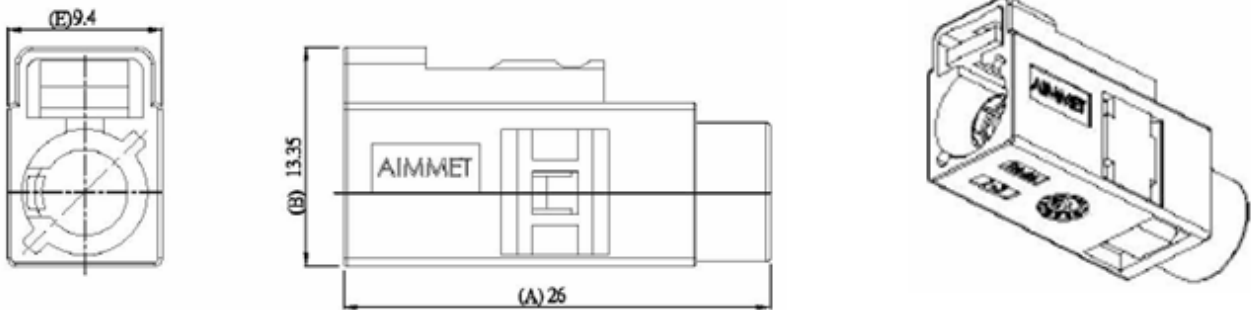
■ Overall Specification (Through Antenna, LNA, without cable loss)

Characteristics	Specification	
Frequency Range	1575~1602 MHz	
Gain	1575.42 MHz	28.4±3 dBic (at 3.0 V)
		32.4±3 dBic (at 5.0 V)
	1602 MHz	27.85±3 dBic (at 3.0 V)
		31.85±3 dBic (at 5.0 V)
Output V.S.W.R	2.0 max	
Operation Voltage	3.0~5.0 V	
Current	8±3 mA (at 3.0 V)	
	16±3 mA (at 5.0 V)	

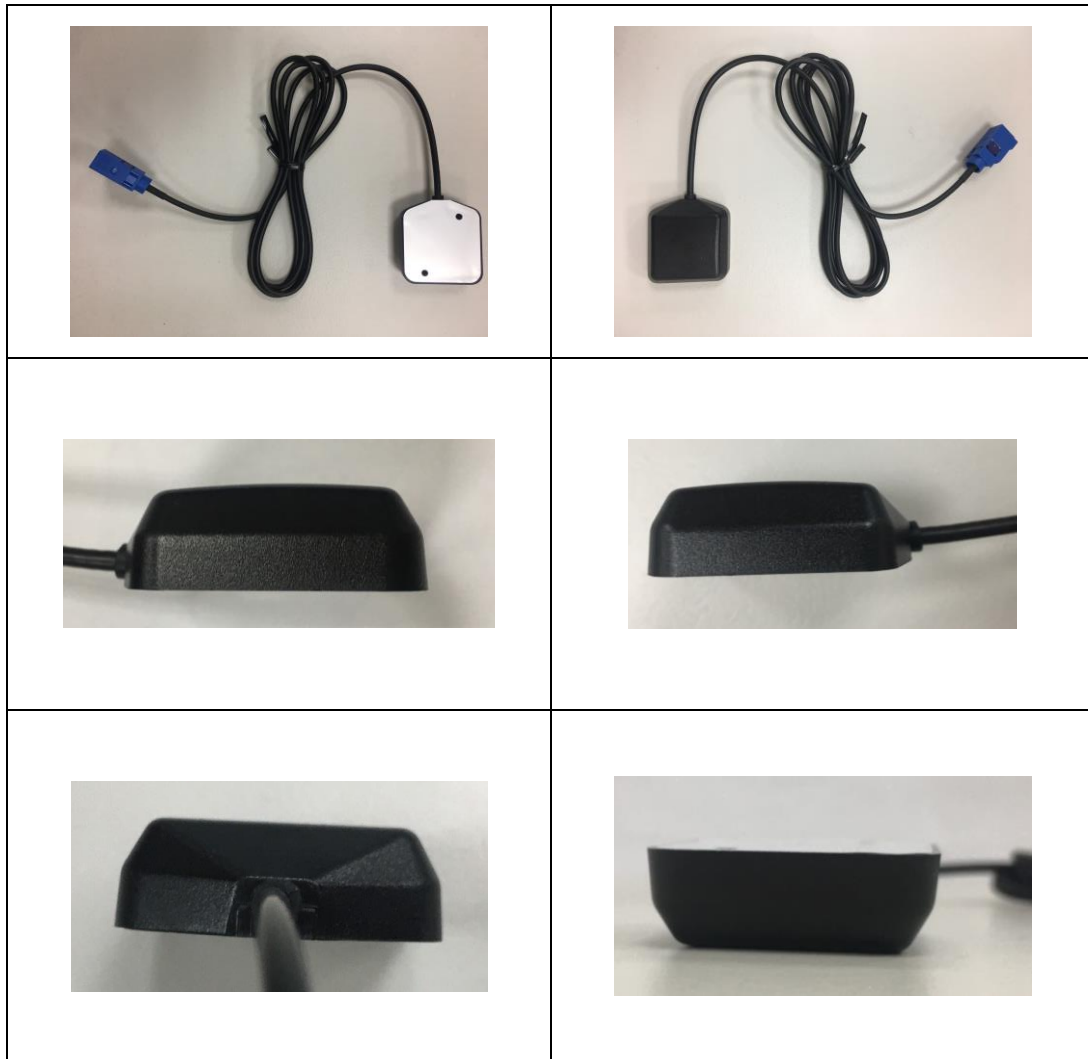
**6. Antenna Dimensions: (unit: mm)**



**■ Connector Appearance: FAKRA SMB FEMALE C CODE**



## 7. Product Photo



## 8. Package Specification

1 pcs product per PE bag (260\*105\*0.06 mm)



20 pcs products per small carton (215\*215\*123 mm)



4 small cartons per large carton (472\*240\*290 mm)

