

GPS & GLONASS & BEIDOU Internal Antenna

Product Number: ATIGGB2540



1、SCOPE

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

2、Electrical Characteristics

Antenna		
1	Antenna model	2540A (25mm*25mm*4mm)
2	Frequency Range	GPS : 1575.42MHz \pm 1.023MHz
		Galileo : 1575.2 MHz \pm 4MHz
		Glonass : 1602 MHz \pm 5MHz
		BeiDou : 1661.098 MHz \pm 2.046MHz
3	V.S.W.R	2.0 MAX
4	Antenna Gain at Zenith (Ceramic Patch Only)	GPS/Galileo: -2.5 dBi typ. @zenith
		Glonass: -1.5 dBi typ. @zenith
		BeiDou: -1 dBi typ. @zenith
5	Impedence	50 Ω
6	Polarization	RHCP
LNA		
1	Frequency Range	GPS : 1575.42MHz \pm 1.023MHz
		Galileo : 1575.2 MHz \pm 4MHz
		Glonass : 1602 MHz \pm 5MHz
		BeiDou : 1661.098 MHz \pm 2.046MHz
2	DC Voltage	3.0 \pm 0.5V
3	DC current	11 \pm 2mA(@3.0V)
4	Gain	GPS / Galileo : 25.5 \pm 3dB(without cable @25 $^{\circ}$ C \pm 10 $^{\circ}$ C)
		Glonass : 26 \pm 3dB(without cable @25 $^{\circ}$ C \pm 10 $^{\circ}$ C)
		BeiDou : 27 \pm 3dB(without cable @25 $^{\circ}$ C \pm 10 $^{\circ}$ C)
5	Output VSWR	2.0 MAX
6	Noise Figure	1.5 MAX

3、Material

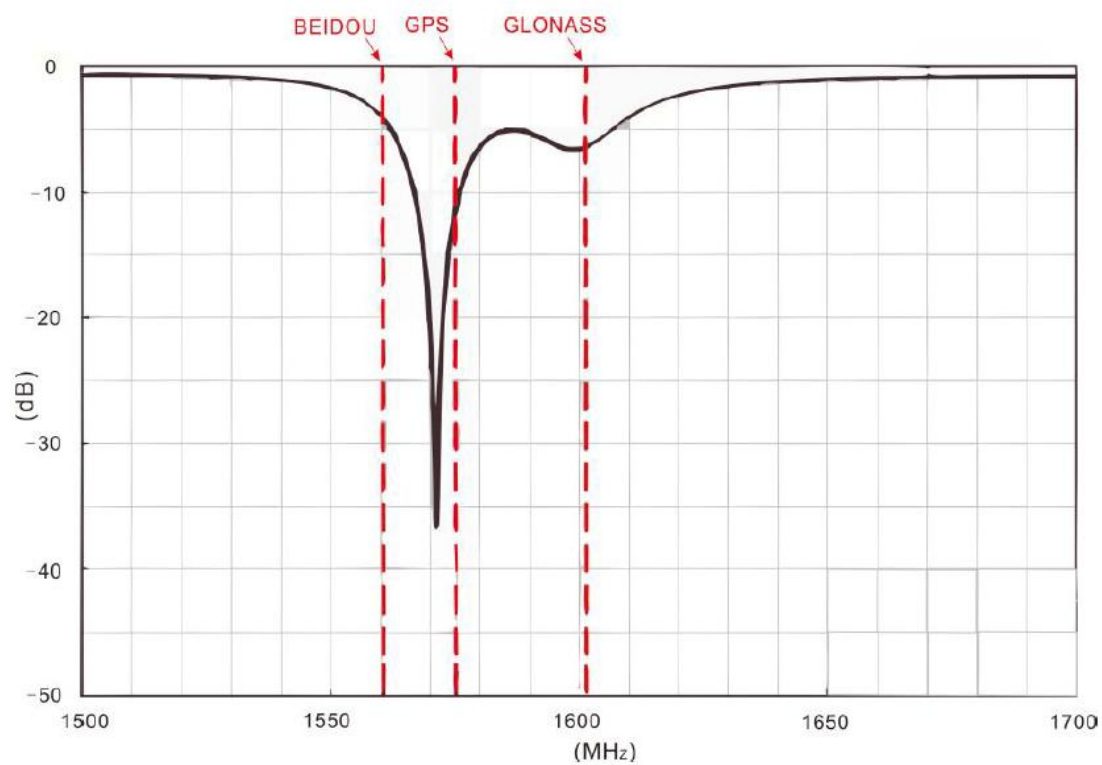
No	Part Name	SPEC
1	Patch Antenna	Dielectric Ceramics
2	Shielding	Tinplate
3	PCB	FR4
4	RF Cable	RF1.13
		L=60mm
5	RF Connector	IPEX (Optional)

4、Environment Condition

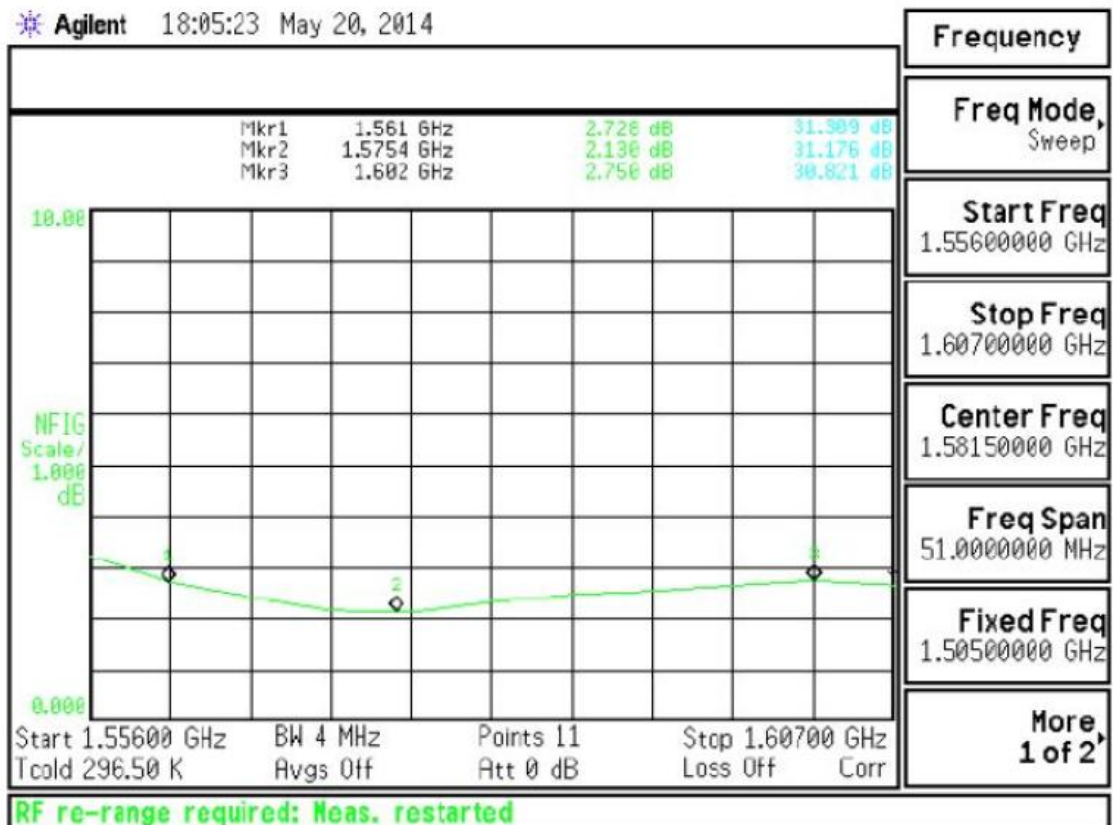
1	Working Temp	-40℃~+85℃, 10%~95% RH
2	Storage Temp	-55℃~+100℃, 10%~95% RH
3	Vibration	Sine sweep @1.5mmAM 10~55Hz each Axis

5、Testing Curve

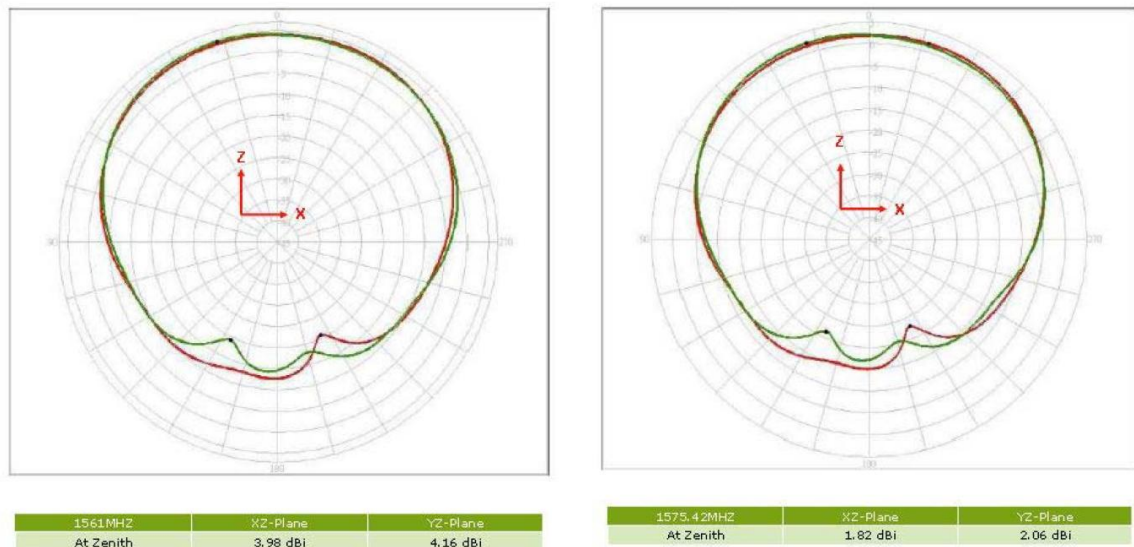
5.1 Patch Simth & VSWR



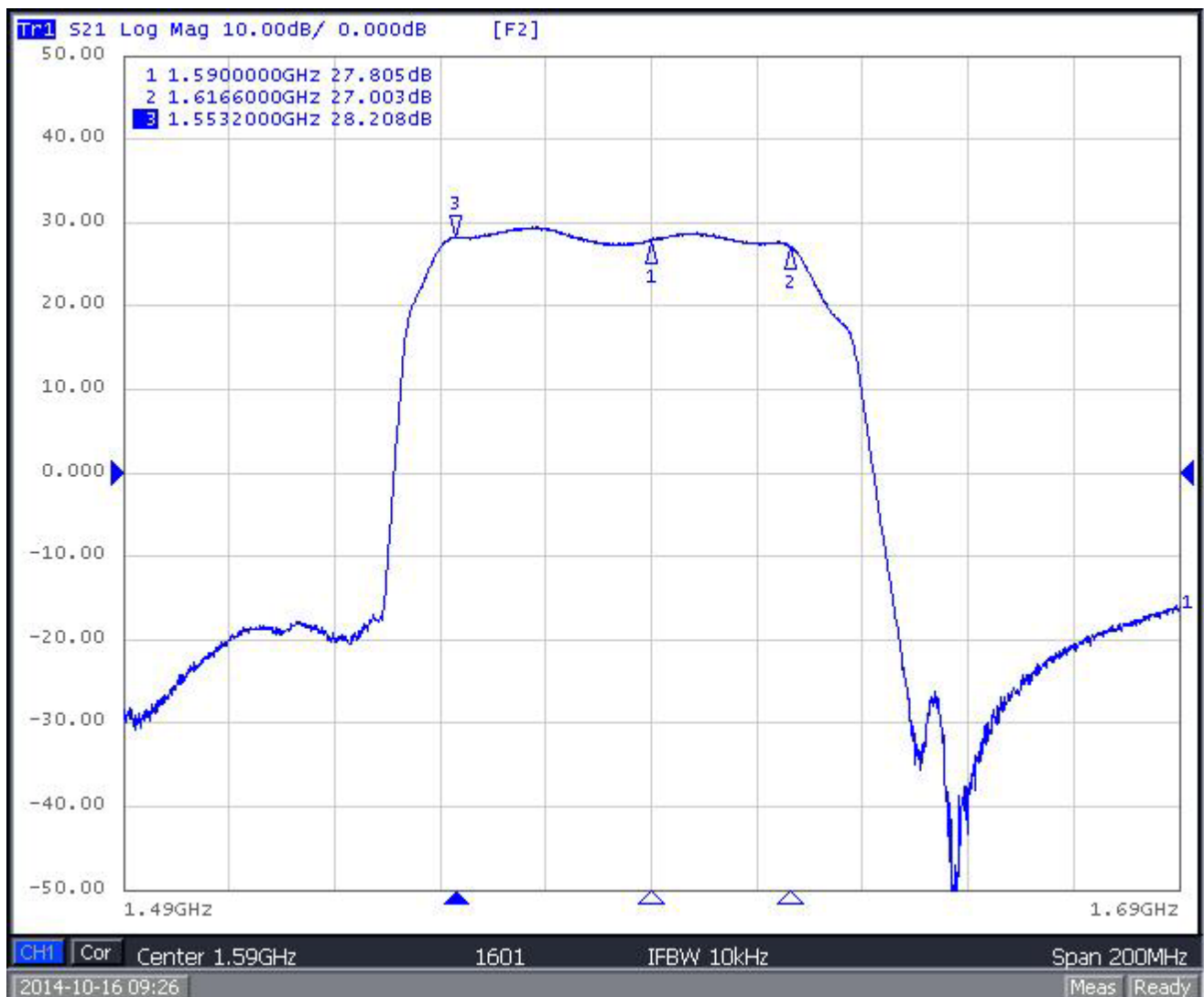
5.2 Noise Figure



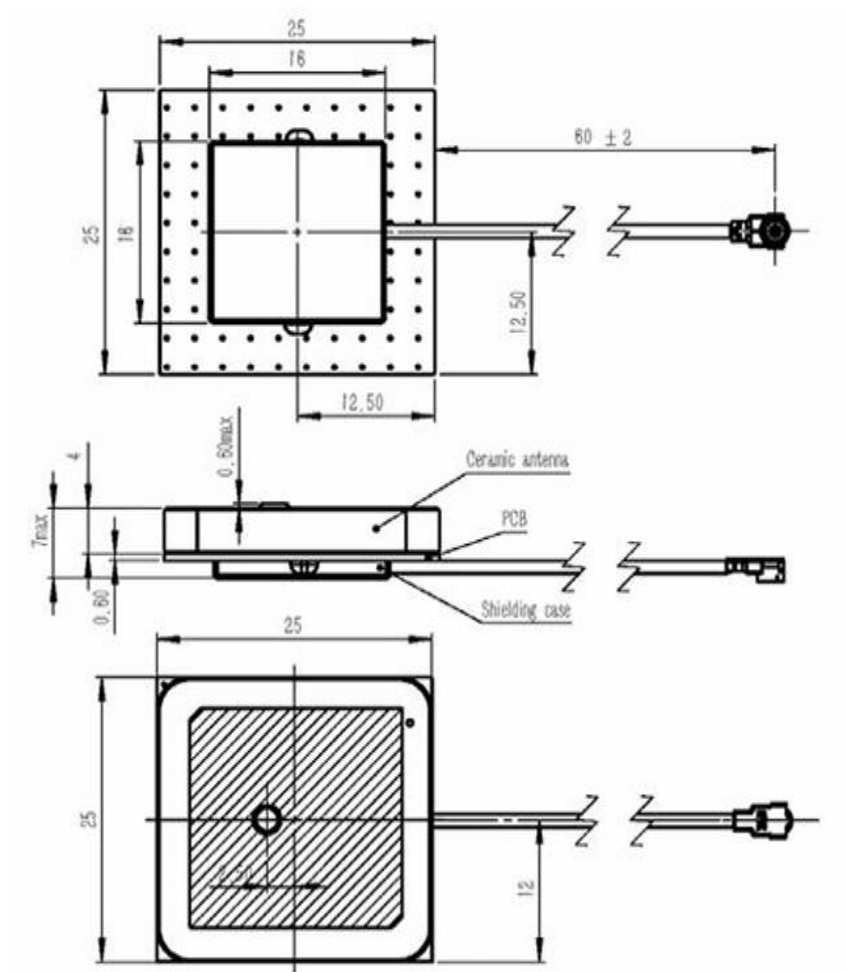
5.3 Patch Directional diagram



5.4 LNA Gain



6、Antenna Dimensions



Unit : mm

7、 Note

7.1 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.

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

7.3 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.