
GPS&GLONASS External Antenna Specification



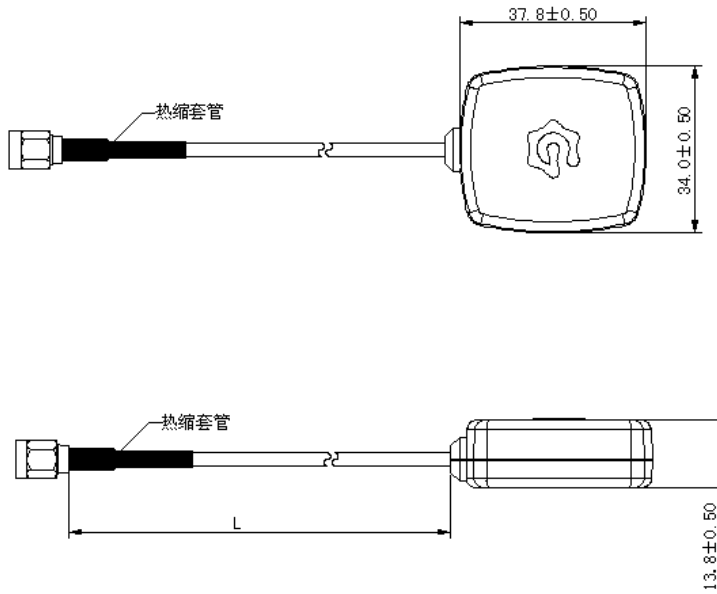
Model: AMT-GPS/GLONASS-C84

一. Electrical Characteristics

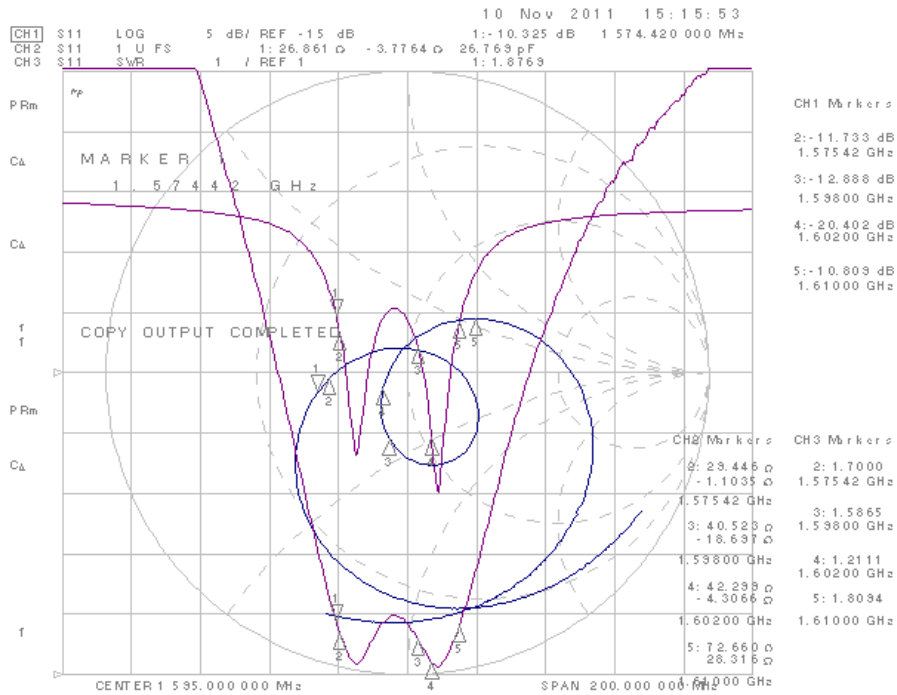
Antenna	
Frequency Range	GPS: 1575.42MHz±1.02 MHz GLONASS: 1602MHz±6 MHz
Frequency Range	1595MHz±25 MHz
V.S.W.R	1.5:1
Band Width	> 10 MHz for GPS > 20MHz for GLONASS
Impedence	50 ohm
Gain	5dBic Based on7×7cm ground plane
Polarization	RHCP
LNA	
Frequency Range	1595MHz±25 MHz

DC Voltage	2.7-5.5V
Gain	GPS: 29±3dB GLONASS: 36±3dB
Outband Rejection (Absolute value)	≥20dB(fo+100MHZ) ≥25dB(fo-100MHZ)
Output VSWR	2.0 max
Noise Figure	1.5 max
DC current	10mA (at3V)
Material	
Antenna	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
RF Cable	RG174
	L=500±10mm or L=300±10mm or Custom
Circular magnets	Φ12.5*2mm
Thickness	15.5mm
RF Connector	SMA Straight male
Testing Conditions	
Working Temp	-40℃~+80℃
Storage Temp	-45℃~+85℃
Vibration	Sine sweep 1g(0-p)
	10~55~10Hz each axis

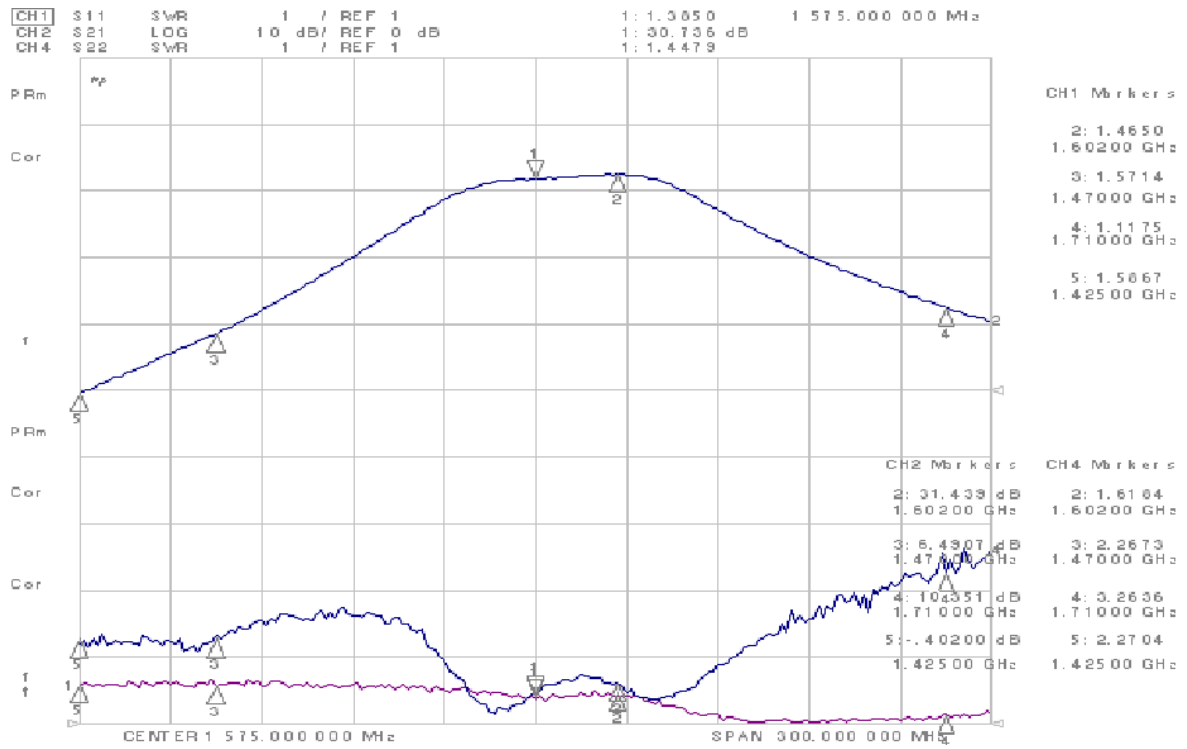
二. Size drawing



三. Patch Test Curve



四. LNA Test Plans



六. Note

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.
2. The product will get free warranty for three months 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.
3. Electrostatic sensitive device. Observe precautions for handling.

七. Application

GLONASS is the abbreviation of Global Navigation Satellite System, it is the similar to the satellite positioning system with the US GPS system, the GLONASS construction from the early 1980s by the former Soviet Union .This antenna combine GPS and GLONASS satellite signal receiving function, with high gain, low noise figure, and cause of the small size is very easy to install. The GLONASS system is used to the Navigation also can be widely used in various grades and types of measurement applications, GIS applications and time-frequency applications.