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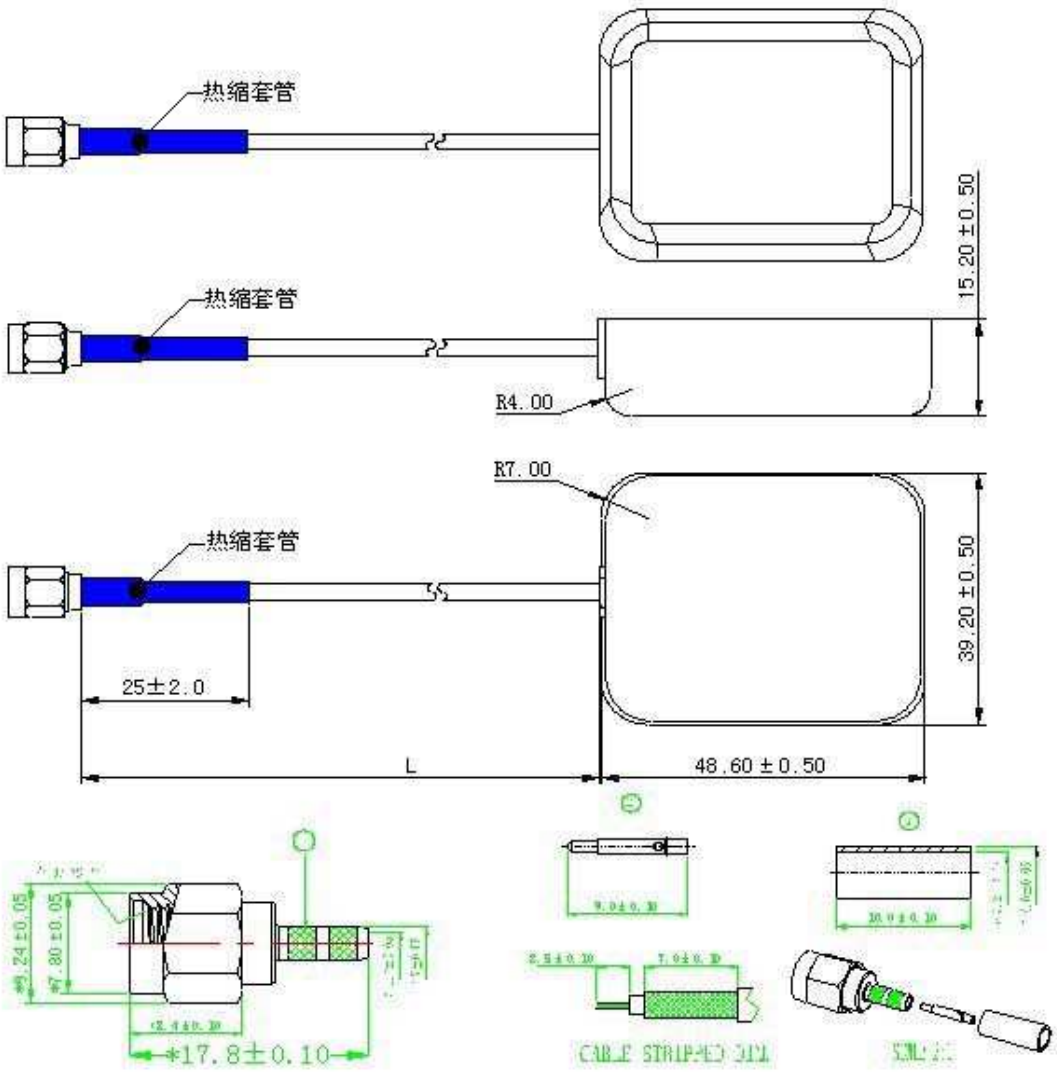
GPS&GLONASS External Antenna Specification

Antenna	
Frequency Range	1575.42MHz±5 MHz 1610MHZ±10MHZ
V.S.W.R	1.5:1
Band Width	+/-5MHz-GPS +/-10MHz-GLONASS
Impendence	50 ohm
Gain	5dBic Based on 7×7cm ground plane
Polarization	RHCP
LNA	

Frequency Range	1595MHz±25 MHz
DC Voltage	2.7V/3.0V/3.3V/5.0V/3.0V to 5.0V/other
Gain（Typical）	30dB (Without cable +25℃±10℃)
Noise Figure（Typical）	1.5DB
DC current	11mA MAX
Material	
Antenna	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
RF Cable	RG174
	L=2000/3000/5000 or other
RF Connector	SMA/MCX/FAKRA or other
Testing　Conditions	
Working Temp	-40℃~+80℃
Storage Temp	-45℃~+85℃
Vibration	Sine sweep 1g(0-p)
	10~55~10Hz each axis

Size drawing



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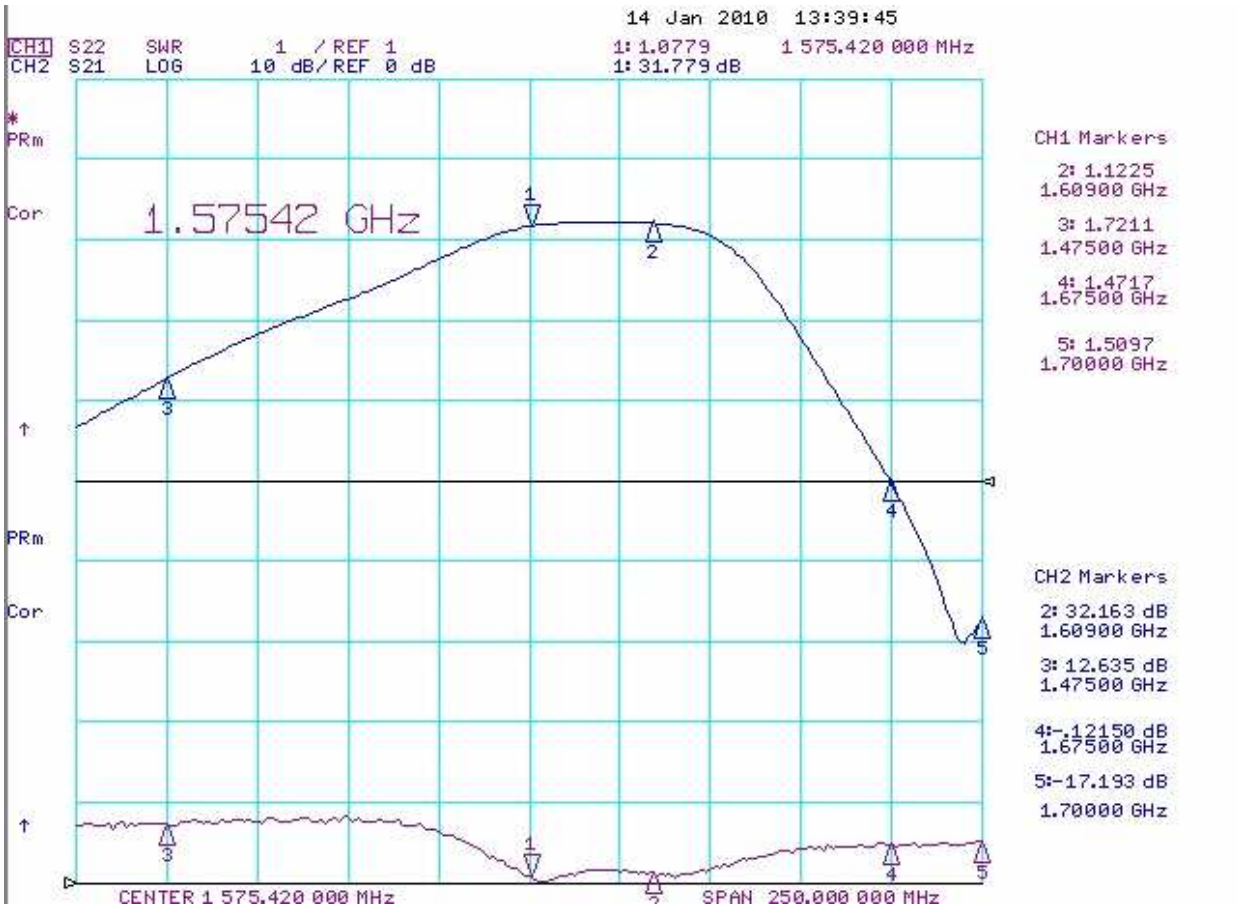
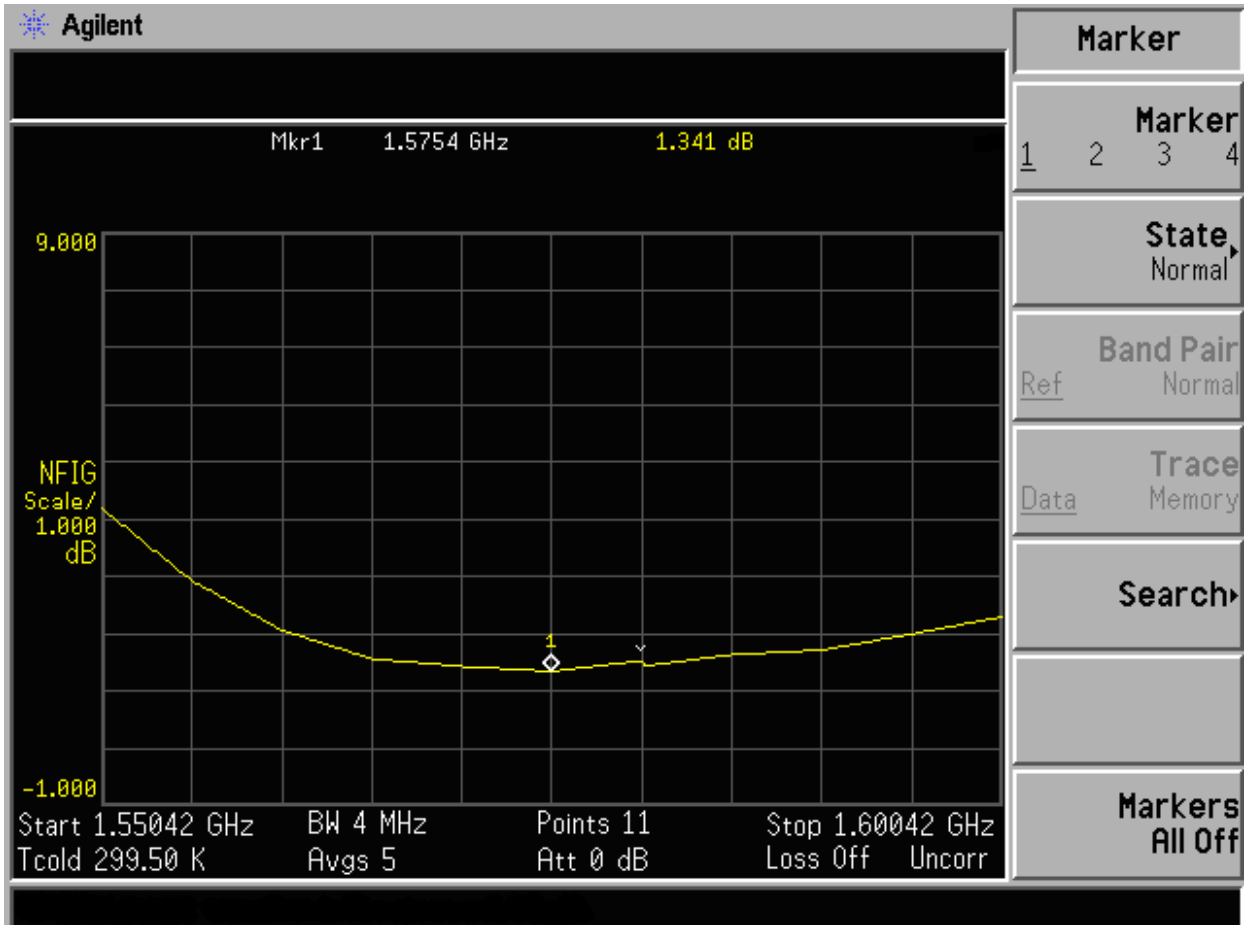
LNA Test Plans



Noise Figur Test Plans



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.

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