

SPECIFICATION

Part No. : **AA.160.301111**

Product Name : Magnet Mount GPS-GLONASS-GALILEO
Antenna

Feature : 1575MHz – 1609MHz
Magnetic Mount
Custom cables and connectors available
RoHS Compliant



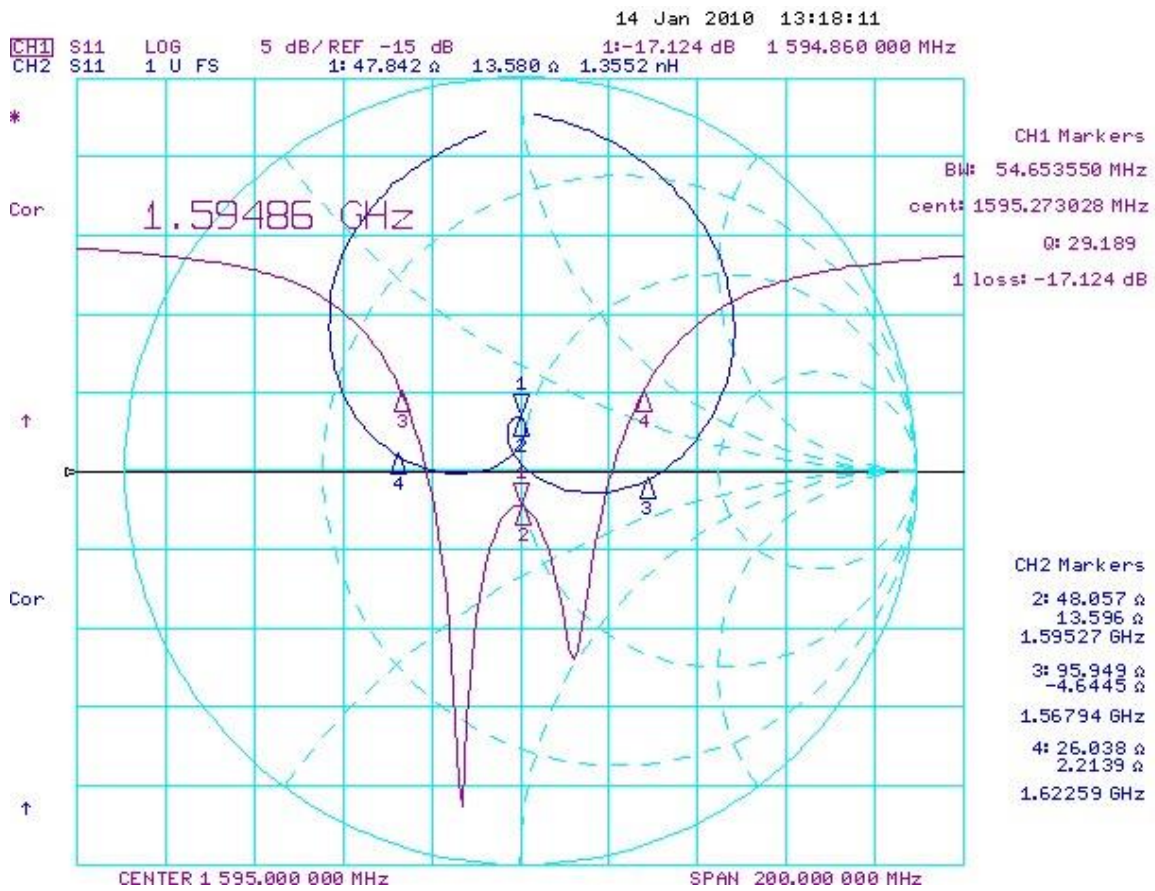
1. Introduction

This antenna is designed for applications which require high positioning accuracy by combining signals from GPS, GALILEO and GLONASS systems. High gain wide-band patch antenna on a large integral ground delivers maximum performance.

2. Specification

CERAMIC PATCH	
Frequency	1575-1609MHz
Bandwidth	40MHz min.
VSWR	1.5:1
Peak Gain	4.0dBic (70*70mm Ground Plane)
Impedance	50 Ohm
Polarization	RHCP
LNA	
Noise Figure	1.5dB Typ.
Output VSWR	<2.0 Max.
LNA Gain	32dB Typical (without cable)
DC Power Input	3-5V
Impedance	50 Ohm
DC Current	8.5mA @5.0V Typ.
MECHANICAL	
Dimensions	36*36*6mm
Antenna	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
Cable	RG-174 Length = 3M
Connector	SMA(M)
ENVIRONMENTAL	
Working Temp	-40°C~+85°C
Storage Temp	-40°C~+100°C
Vibration	Sine sweep 1g(0-p) 10~55~10Hz each axis
DC Voltage	DC=3-9V

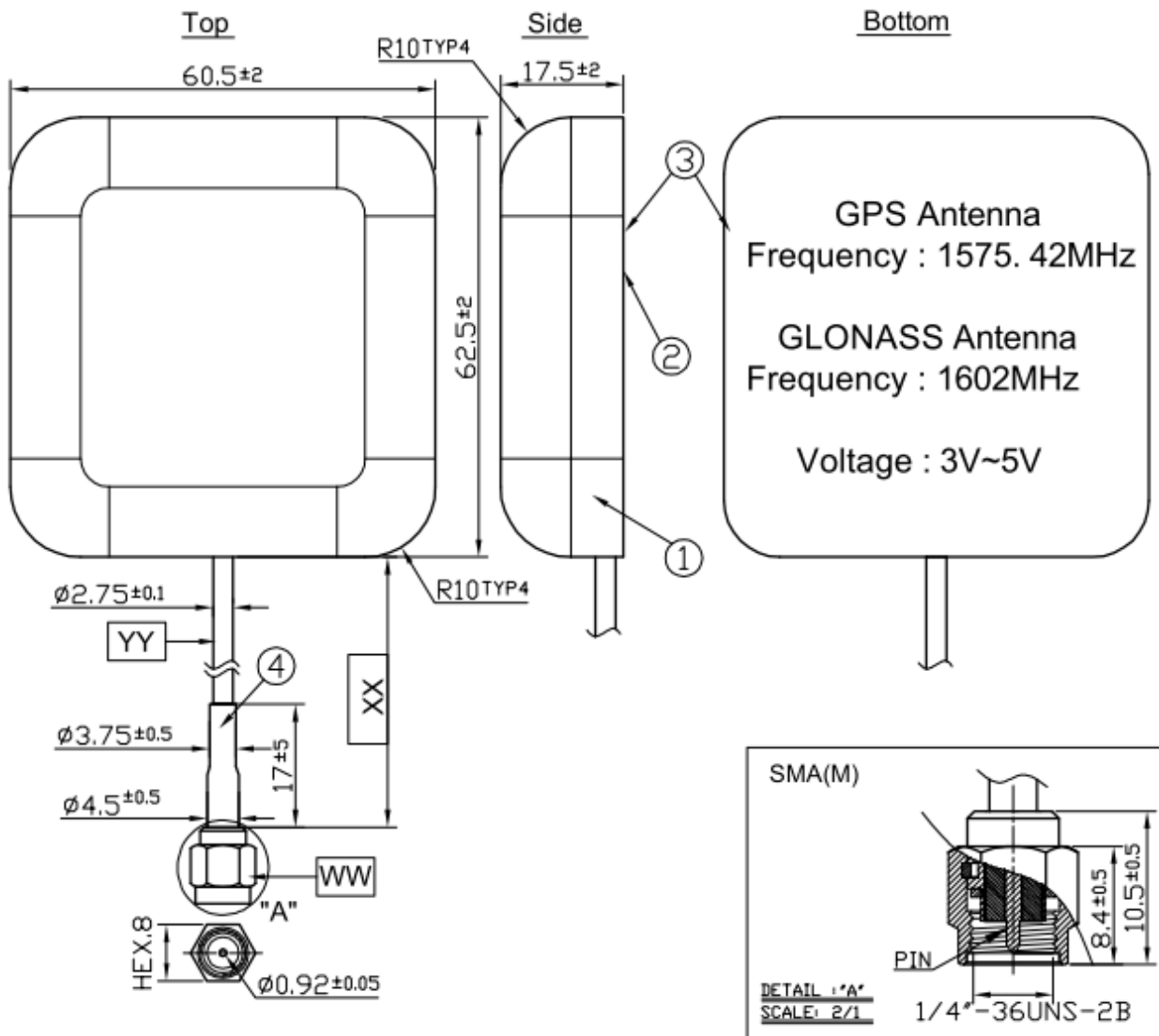
3.S11 Performance Comparison (Passive Patch – separated from the LNA)



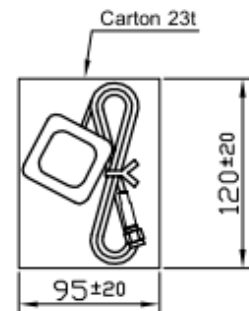
4.S21/S22 Performance Comparison (LNA)



5. Drawing



	Name	P/N	Material	Finish	QTY
1	AA.160 Antenna Housing Top	000112A000028A	ABS+PC	Black	1
2	AA.160 Antenna Housing Bottom	000112A010028A	ABS+PC	Black	1
3	AA.160 Sticker	001012A010028A	Terylene	Silver	1
4	Heat Shrink Tube	001311F0000XXA	PE	Black	1
	Name	P/N	Spec	Finish	QTY
WW	Connector Type	SMA.M.ST.PLUG.D.WS	SMA(M)	Gold	1
XX	Cable Length		3000±30mm		1
YY	Cable Type	301311F0000XXA	RG174	Black	1





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