



-7RF Antenna-

7RF-MAP-0003-GNJ1-02

Adhesive Mounted External GPS/GLONASS 2 Stages

26dB LNA Active Patch Antenna



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Revision: A

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*ISO-SPEC-19-22_A



I. Introduction.

7RF provides high quality external Adhesive Mounted GPS active antenna. P/N: MAP-0003-GNJ1-02 antenna supports GPS and GLONASS navigation system application. The antenna has solid enclosure with adhesive, which assist end user easy to stick antenna on target surface. The antenna has 3 meters RG174 coaxial cable with SMA male connector as standard configuration. Cable length & Connector are customizable. Contact your local sales to get more product information.

II. Antenna Specification Table

Item	Specifications	
GPS/GLONASS Antenna	Center Frequency	1575.42-1602MHz
	Band Width	CF \pm 5MHz
	Polarization	RHCP
	Gain	2dBic (Zenith)
	V.S.W.R	<1.5
	Impedance	50 Ω
	Axial Ratio	3dB (max)
	Dimension	20*20*4mm
LNA	Gain	26 \pm 2dB
	Noise Figure	<1.5dB
	Supply Voltage	2.2~5V DC
	Current Consumption	<15mA
	V.S.W.R	<2.0



Mechanical Specification

Mechanical	Cable	RG174
	Connector	SMB Plug ST
	Radome Material	ABS
	Mounting Method	Adhesive Mount

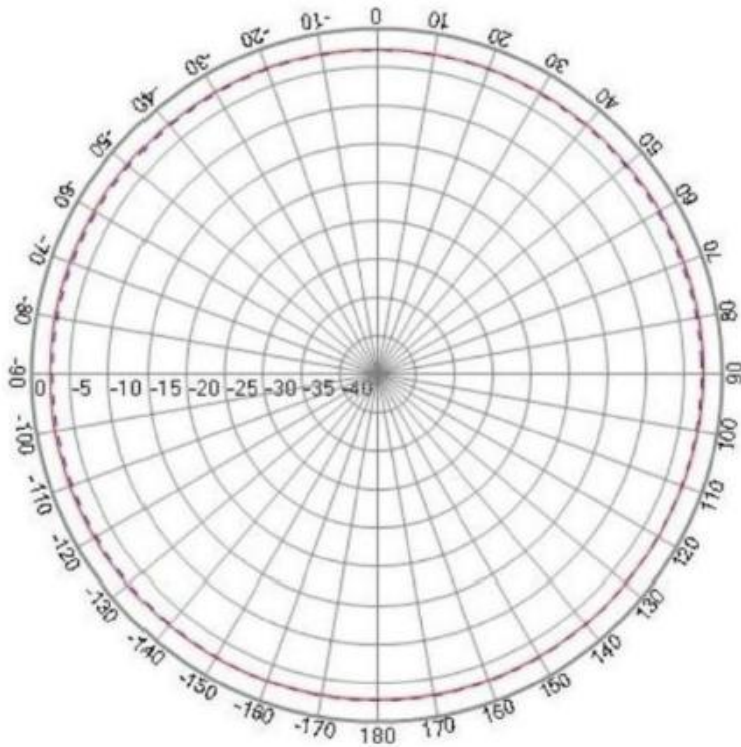
Environmental Specification

Environmental	Operating Temperature	-40°C~+85°C
	Relative Humidity	Up to 95%
	Ingress Protection	IP67

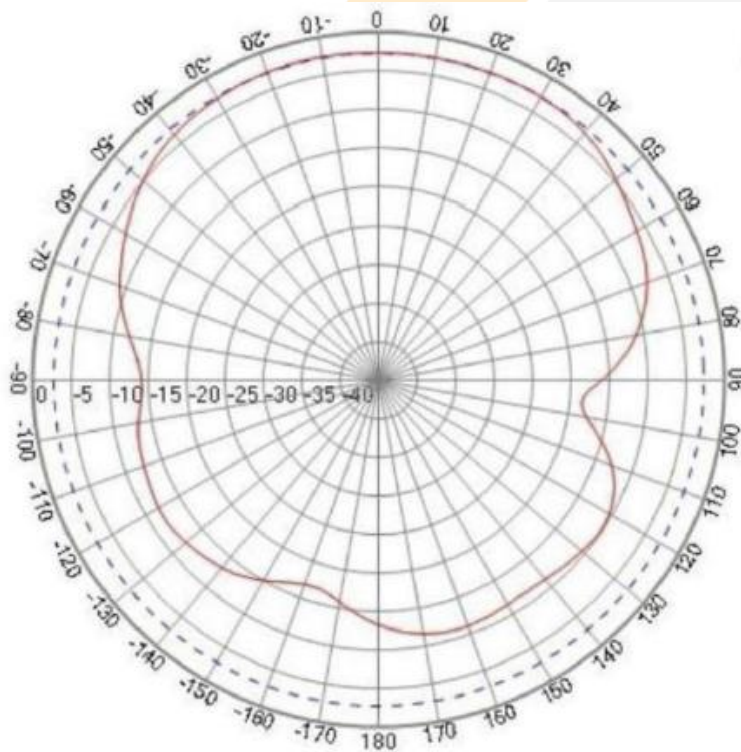


III. Antenna Radiation

GPS:



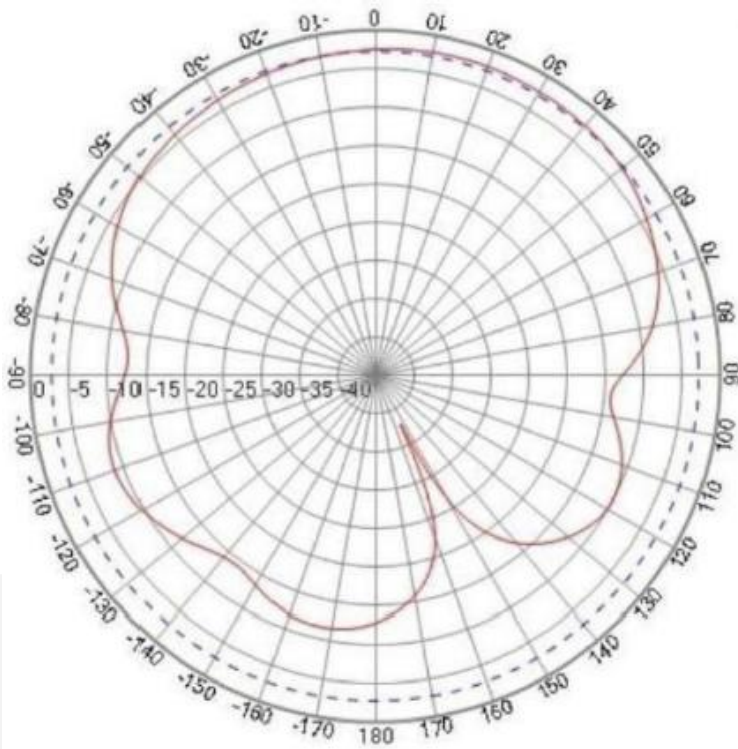
XY Plane-GPS



XZ Plane-GPS

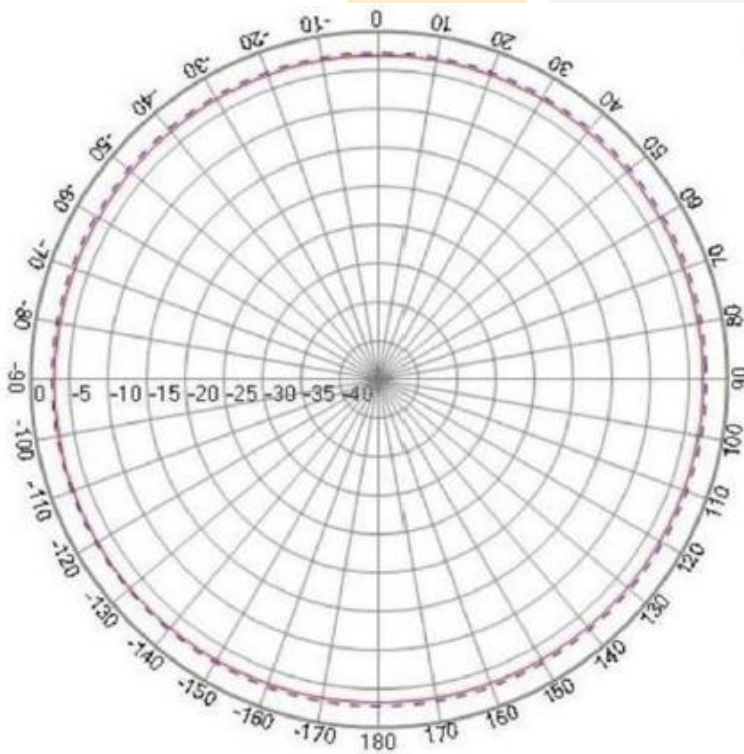


YZ Plane-GPS

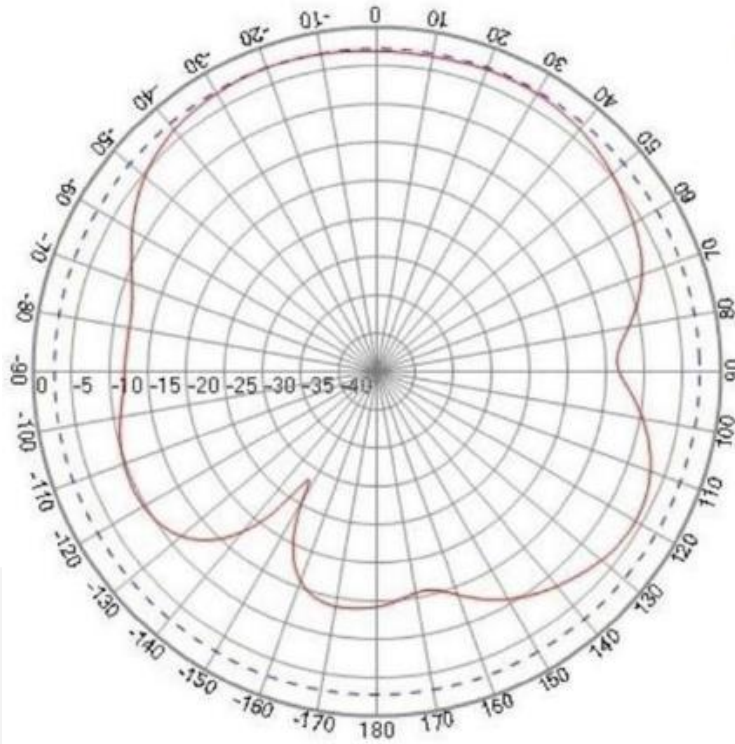


GNLOSS:

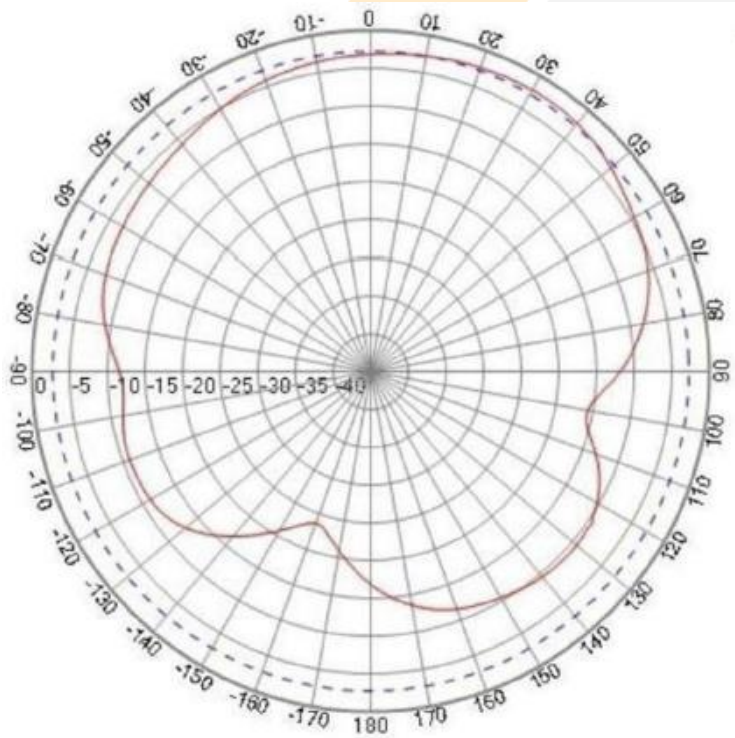
XY Plane-GLONASS



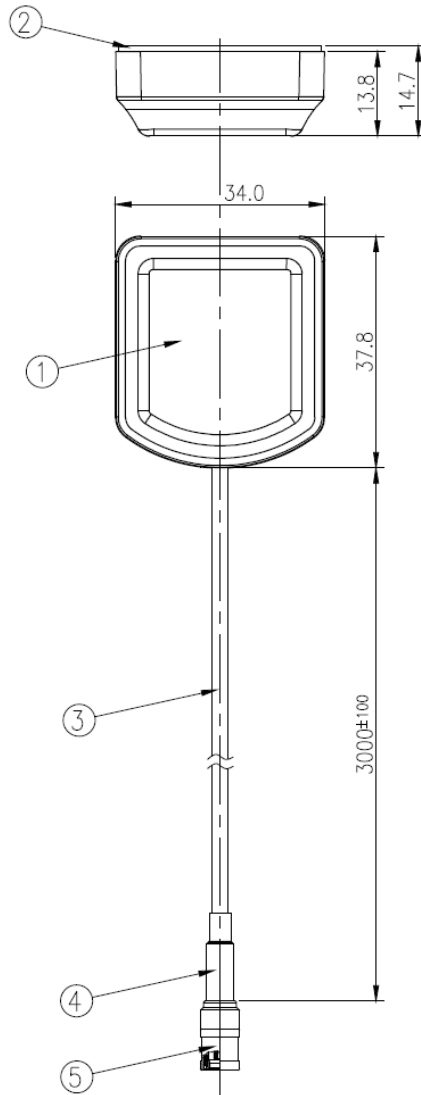
XZ Plane-GLONASS



YZ Plane-GLONASS



IV. Antenna Drawing



Unit:mm

	Name	Material	Finish	QTY
1	HOUSING	ABS	BLACK	1
2	DOUBLE SIDED ADHESIVE	3M 4229P	GRAY/RED LINER	1
3	RG-174 COAXIAL CABLE	PVC	BLACK	1
4	HEAT SHRINK TUBE	PE	BLACK	1
5	SMB PLUG ST	BRASS	Au PLATED	1