

-7RF Antenna-

7RF-MAP-0002-GBJ-01



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I. Introduction.

7RF provides high quality external Magnetic Mounted GPS active antenna. P/N: MAP-0002-GBJ-01 antenna supports GPS, GLONASS and Beidou navigation system application. The antenna has solid enclosure with Magnet, which assist end user easy to stick antenna on metal 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

Antenna

Working Frequency	BD: $1561 \pm 2\text{MHz}$ GPS: $1575 \pm 3\text{MHz}$ GLONASS: $1602 \pm 2\text{MHz}$
V. S. W. R	≤ 2.0
Band Width	$>20 \text{ MHz}$
Impedance	50 ohm
Gain	4.5dBic type Based on $70 \times 70\text{mm}$ ground plane
Polarization	RHCP

LNA Circuit

Frequency Range	BD: $1561 \pm 2\text{MHz}$ GPS: $1575 \pm 3\text{MHz}$ GLONASS: $1602 \pm 2\text{MHz}$
DC Voltage	1.8-5.5V
Gain	$30 \pm 3\text{dB}$
Output VSWR	≤ 2.0
Noise Figure	≤ 1.5
DC current	$9.0 \pm 3\text{mA}$ (at 3.0V)



Overall Specification

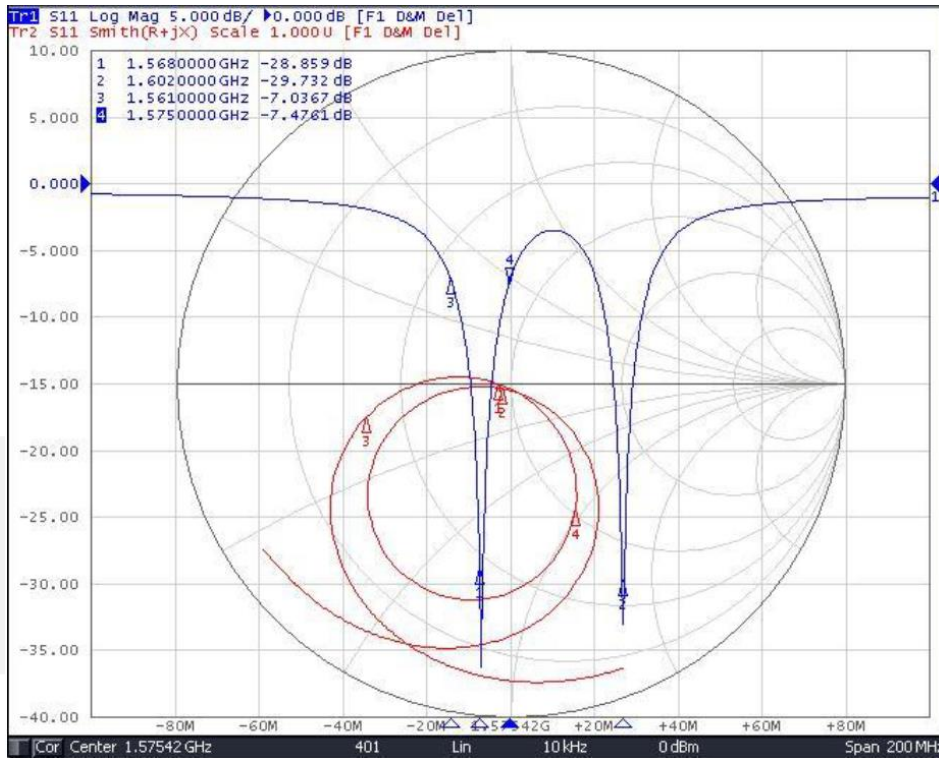
Frequency Range	BD: $1561 \pm 2\text{MHz}$ GPS: $1575 \pm 3\text{MHz}$ GLONASS: $1602 \pm 2\text{MHz}$
Output VSWR	≤ 2.0
Impedance	50 ohm

Environmental Specification

Working Temp	$-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$
Storage Temp	$-45^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Vibration	Sine sweep 1g(0-p)
	$10 \sim 55 \sim 10\text{Hz}$ each axis
International Protection	IP67

III. Antenna Parameters

Patch Antenna S-Parameter:

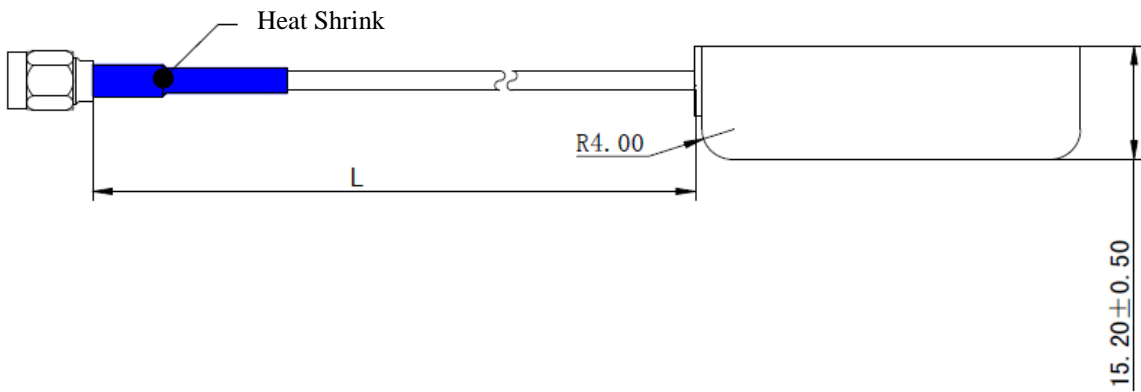
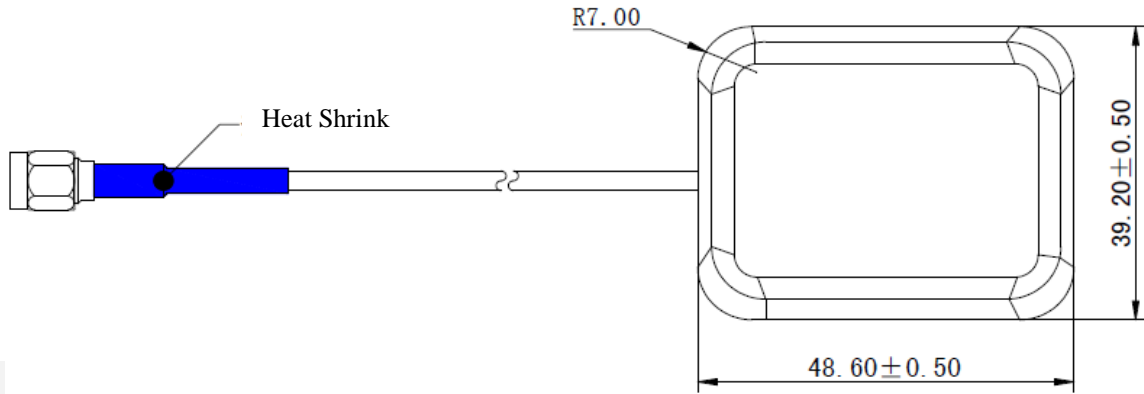


LNA Circuit Gain:





IV. Antenna Drawing

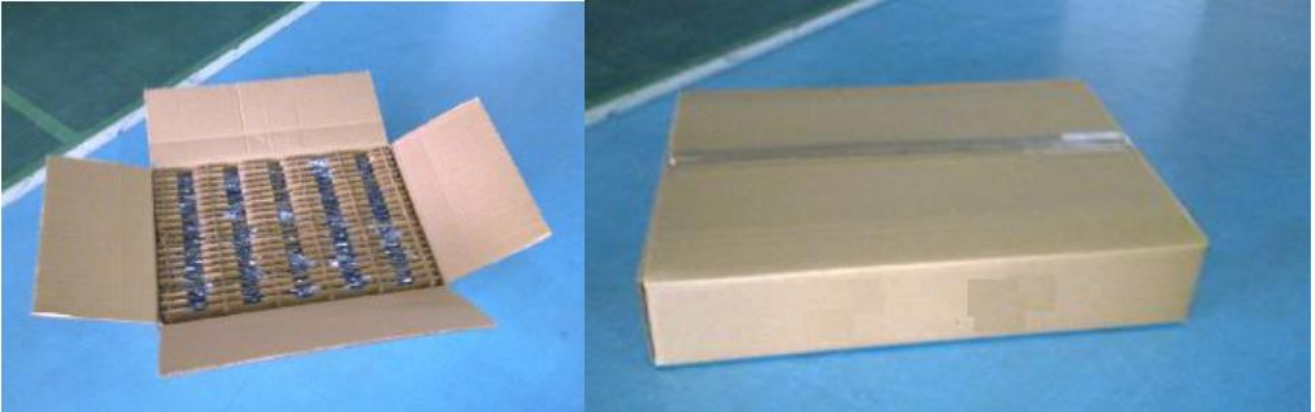


Unit:mm

Cable Length: 3000+/-100mm



V. Packaging Method



2 pieces per Lattice, 100 pieces per Carton. Carton Size: 630*460*105mm.

