

# ANT BY-GPS/GLONASS-03 SMA-M 4M

## ( i ) Dielectric Antenna

Frequency ( MHz ) : 1575/1602

Center Frequency ( MHz ) : 1590

VSWR : 1.5:1

Bandwidth ( MHz ) :  $\pm 5$

Impedance (  $\Omega$  ) : 50

Peak Gain > 3dBi Based on 7cm $\times$ 7cm ground plane

Gain Coverage > -4dBi at  $-90^\circ < \theta < +90^\circ$ (over 75% Volume)

Polarization : RHCP

## ( ii ) LNA/Filter

LNA Gain (Without cable) ( dBi ) : 28 Typical

Noise Figure ( dB ) : 1.5

Filter Out Band Attenuation (f0=1575.42 MHz)

7dB Min f0 $\pm$ 20MHz ;

20dB Min f0 $\pm$ 50MHz;

30dB Min f0 $\pm$ 100MHz

VSWR < 2.0

DC Voltage ( V ) : 2.7/3.0/3.3/5.0/3.0 to 5.0 etc.

DC Current ( mA ) : 11Max

## ( iii ) Mechanical

Weight ( gram ) < 110

Size ( mm ) : 44.0 $\times$ 35.5  $\times$ 14.0

Cable Length ( m ) : 2,3 etc.

Connector : SMA/SMB/SMC/BNC/FME/TNC/MCX/MMCX etc.

Mounting : Magnetic base

Housing : Black

## ( iv ) Environmental

Working Temp : -40 $\square$ ~+85 $\square$

Storage Temp : -45 $\square$ ~+100 $\square$

Vibration : Sine sweep 1g(0-p)10~50~10Hz each axis

Humidity : Humidity95%~100%RH

Weatherproof : 100%Waterproof

