



PART NUMBER:BY-GPS-10

(i) Dielectric Antenna

Center Frequency (MHz) : 1575.42±3

VSWR: 1.5:1

Bandwidth (MHz) : ±5

Impedance (Ω) : 50

Peak Gain > 3dBi Based on 7cm×7cm ground plane

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

Polarization: RHCP

(ii) LNA/Filter

LNA Gain (Without cable) : 28 dBi Typical

Noise Figure (dB) : 2.0

Filter Out Band Attenuation ($f_0=1575.42$ MHz)

40dB Min $f_0\pm 50$ MHz ; VSWR < 2.0

DC Voltage (V) : 2.7 to 5.5v

DC Current (mA) : 11Max

(iii) Mechanical

Weight (gram) < 110

Size (mm) : 42X36X13.5

Cable Length (m) : 2,3 etc.

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

Mounting: Magnetic/adhesive

Housing: Black

(iv) Environmental

Working Temp: $-40^\circ\text{C}\sim+85^\circ\text{C}$

Storage Temp: $-45^\circ\text{C}\sim+100^\circ\text{C}$

Vibration: Sine sweep $1g(0-p)10\sim50\sim10\text{Hz}$ each axis

Humidity: Humidity $95\%\sim100\%\text{RH}$

Weatherproof: 100%Waterproof