



5-In-1 Multi-Band Antenna Specification

Model: SPK-G3B01

GPS/Glonass/GSM



(i) Dielectric Antenna

Frequency (MHz): 1575/1602

Center Frequency (MHz): 1590

VSWR: 1.5:1

Bandwidth: 50 MHz Min at -10 dB

Impedance (Ω): 50

Peak Gain: 5dBic Min/1575MHz.

4dBic Min/1602~1616MHz

Gain Coverage \geq -4dBic at $-90^\circ < 0 < +90^\circ$ (over 75% volume)

Power Handling (W): 1

Polarization: RHCP

(ii) GSM Antenna

Center Frequency (MHz): 850/900/1800/1900

VSWR: 2.0:1

Impedance (Ω): 50

Typical Gain: 2dBi+/-1dBi@850MHz ; 2dBi+/-1dBi@900MHz

1dBi+/-1dBi@1800MHz; 1dBi+/-1dBi@1900MHz



(iii) LNA/Filter

LNA Gain(Without cable): 32 dBi Typical
Noise Figure (dB): 1.5
Filter Out Band Attenuation (f0=1575.42 MHz)
7dB Min f0+/-20MHz ;
20dB Min f0+/-50MHz ;
30dB Min f0+/-100MHz
VSWR <2.0
DC Voltage (V): 2.7/3.0/3.3/5.0/3.0 to 5.0 etc.
DC Current (mA) : 11 Max

(iv) Mechanical

Weight (gram) <240
Size (mm): 70×70×14
Cable Length (m): 2,3 etc.
Connector: SMA/SMB/SMC/BNC/FME/TNC/MCX/MMCX etc.
Mounting: Adhesive /Magnetic /Screw
Housing: Black

(v) Environmental

Working Temp: -40°C~+85°C
Storage Temp: -45°C~+100°C
Vibration: Sine sweep 1g(0-p)10~50~10Hz each axis
Humidity: Humidity95%~100%RH
Weatherproof: 100%Waterproof