

## BY-GPS/GSM-03

### Mini Qual-Band Antenna Specification



## Product Specifications

### Dielectric Antenna

Center Frequency (MHz) : 1575.42±3

VSWR: 1.5:1

Bandwidth (MHz) : ±5

Impedance: 50Ω

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

Gain Coverage: >-4dBi at -90° < 0 < +90° (over 75% Volume)

Polarization: RHCP

### LNA/Filter

LNA Gain (without cable): 28dBi Typical

Noise Figure: 1.5dB

Filter Out Band Attenuation (f0=1575.42MHz)

- 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: Max 11mA

### 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: Humidity 95% ~ 100% RH

Weatherproof: 100% Waterproof

### GSM Antenna

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

VSWR: 2.0:1

Impedance: 50Ω

Typical Gain:

- 2dBi ±1dBi@850MHz

- 2dBi ±1dBi@900MHz

- 1dBi ±1dBi@1800MHz

- 1dBi ±1dBi@1900MHz

### Mechanical

Weight: <240g

Size: 65 x 38.5 x 37mm

Cable: GPS - RG174 2.5 etc ; GSM - RG174 2.5 etc

Connector:

- GPS : SMA/SMB/SMC/BNC/FME/TNC/MCX/MMCX etc

- GSM : SMA/SMB/SMC/BNC/FME/TNC/MCX/MMCX etc

Mounting: Screw (hole/roof)

Housing: Black