

Helical Antenna Specification

Product information:

Product Name: Helical Antenna

Model: SHM-GGB-R35Q2

Suitable Frequency: GPS L1/L2、BDS B1/B2/B3、GLONASS L1/L2

Application: Spiral active antennas covering GPS L1/L2, BDS B1/B2/B3 and GLONASS L1/L2 are widely used in navigation scheduling, tracking monitoring, measurement and control or other fields. Especially suitable for many applications such as UAV, aerial photography, traffic monitoring, remote sensing, etc., it can also be used in various handheld terminals, high-precision modules, etc.

Features:

1. Adopts a four-arm spiral structure to ensure small errors in the phase center and geometric center of the antenna, which can effectively reduce the measurement errors.
2. High gain, wide beam and good reception effect for low elevation signal.
3. Small size and power consumption, light weight and wide application, could effectively ensure the battery working time of devices.

Electrical Specification:

Passive Antenna:

Frequency Range(MHz)	GPS L1L2/& BDS B1/B2/B3&GLONASS L1/L2
Polarization	Right-hand circular polarization
Gain(dBi)	elevation 90°: ≥2
Axial Ratio(dB)	elevation 90°: ≤3
Impedance(Ω)	50
VSWR	≤2: 1
Horizontal Coverage Angle (°)	360°omnidirectional

LNA:

Signal Gain(dB)	35±2
Noise Figure(dB)	≤2
VSWR	≤2: 1
Working Voltage (VDC)	3~5
Current (mA)	≤20
Inband Spectrum Ripple (dB)	≤2
Impedance(Ω)	50

Physical Characteristic:

Dimensions(mm)	57*Φ27.5
Weight (g)	≤25
Connector Type	SMA-J
Operating Temperature(°C)	-40~+70
Storing Temperature(°C)	-40~+70
Humidity	95%

Drawing:

