

Marine GPS Antenna

Built-in Short Circuit Protections



Marine GPS antenna equips innovative, high quality, performance and built-in RF protection circuit to protect the active LNA and high gain as well as value-added design at a wide range of power supply from 3v ~ 6v for any kinds of receivers.

Performance

Marine GPS antenna has ultimate performance and unique design which meets **Marine, Networking and any GPS applications**, which requires maximum performance and complete support.

Features

- 10W RF protection
- Standard WAAS tune
- Short-circuit protection
- Wide range power input voltage from +3v ~ 6v
- Narrow band width at 10MHz for real GPS L1 signal
- Cable length 3M
- 2 stages active LNA
- Dual Filters BPF(directric)& LPF(lump element)
- Dielectric patch antenna
- Low noise, linear regulator
- High current shut down
- Radio frequency interference immunity (RFI)
- Improve overall GPS system resistance to interference



| General | |
|-----------------------|-----------------------------------------------------|
| Architecture Design | 2 Stages active LNA |
| | Dual Filters, (BPF(dielectric) & LPF(lump element)) |
| | RF protection (10watt), nano-second Spark-Gap |
| | Dielectric Patch antenna |
| | Low Noise Low drop-out, Linear Regulator |
| Performance | |
| Receiving Frequency | L1 Band(1575MHz) |
| Output Impedance | 50 ohms |
| Polarization's | Right Hand Circular (RHC) |
| Bandwidth | < 50 MHz |
| VSWR | 1.8 Typical @ 1575MHz |
| Elev. Angle Coverage | 5~90 degree |
| Az. Bearing Coverage | 360 degree |
| Filtering | Dual(BPF <50 MHz B/W > |
| Over-all Gain | 28dB (typical including 4dB cable loss & Filters) |
| Over-all NF | <1.8dB @fo, 2dB max. |
| LNA Characteristic | K=>1 Un-conditionally Stable |
| RF Insertions loss | 0.1dB, leakage power 100mW /1 watt input |
| Electrical | |
| Power Input | +3Vdc to +6Vdc input, AutoSwitch |
| Power Consumption | 25mA |
| Power Input Sensor | Reverse Polarity Short Circuit shutdown |
| Over-Current Sensor | Thermal Over-current shutdown >+150degreeC |
| Physical | |
| Dimensions | 79d x 58h x 13mm |
| Mount | 13mm treaded (1/2inch) |
| Radome Color | White |
| Coax Connector | BNC,SMA,TNC, MCX |
| Coax Cable | RG-58, RG-174, RG-316 |
| Environmental | |
| Operating Temperature | -30 to + 85 degree C |
| Storage | -40 to + 90 degree C |

