GPS/ GLONASS Antenna Module

MODEL: GAM-25GB

Small size and ruggedness, demand of vehicle locating and marine navigation GPS/ GLONASS antenna that will sustain harsh environment.



- Operation temperature: -30°C to +80°C
- Input Voltage: 2.5V~5.5V
- Frequency range: 1575.42+1.023MHz
- Gain: 29dB Typ.

GAM-25GB is the most compact GPS/GLONASS antenna module currently available on the market, thanks to our cutting-edge technology that makes the device the tiniest possible without sacrificing performance. With comprehensive coverage almost all the way to the horizon, it performs excellently in foliage or urban canyon environment. Featuring diminutive but substantial enclosure plus unparalleled performance, **GAM-25GB** is compatible with almost every GPS/GLONASS receiver model available on the market and provides a perfect alternative for a vast range of GPS applications in the fields of AVL, vehicle navigation, aviation and military. **SPECIFICATIONS:**

| Specification | |
|---------------------------|-------------------------|
| Physical Condition | |
| Dimension | 48mm (OD) x 8.5mm (H) |
| Weight | >30 grams |
| Environmental Conditions | |
| Operation temperature | -30°C to +80°C |
| Storage temperature | -40°C to +100°C |
| Relative Humidity | 40% to 95% |
| Electrical Specifications | |
| Input voltage | 2.5V~5.5V |
| Power Consumption | at 2.5V 6.6mA Typ. |
| | at 3.0V 10.6mA Typ. |
| | at 4.0V 14.6mA Typ. |
| | at 5.0V 20.6mA Typ. |
| Antenna | |
| Frequency range | 1575Mhz & 1596-1610 MHz |
| Gain at 10° elevation | 2 dBi typical |

BJTEK Navigation Inc.

| BVBM/RNavigation Inc. | 1.5 max https://www.bjnav.com |
|---|--|
| Bandwidth | 10 MHz min. @S11≤-10 dB, 24MHz typ. @S11<-8dB |
| Polarization | RHCP |
| Axial Ratio | 3.0dB Typ. |
| LNA | |
| Frequency range | 1570 Mhz : 29db typ 1610 Mhz : 29db typ |
| Bandwidth: | 50 MHz min. |
| Noise Figure | 1.5 Тур. |
| Filter | 20dB 25dB @ fo+/- 50MHz 30dB 35dB @ fo+/- 100MHz * fo=1575.42MHz |
| Output Impedance | 50 ohm |
| Output VSWR | 2.0 max. |
| Total Specifications(Through Antenna, LNA, Cable and Connector) | |
| Frequency range | 1570 ~1610 Mhz. |
| Gain | At 90° vertical to sky 30 ± 4.5dBi (cable loss) Note:1 Mounted on the 60mm x 60mm square ground plane |
| Output Impedance | 50 ohm |
| VSWR | 2.0 max. |

 \ast This specification is subject to change without prior notice

Note:1:Cable Loss=(-1.2dB/m)

Data Updated: sep 11, 2011

OUTLINE :

