

## GPS/ GLONASS Antenna

### MODEL: GA-65BG

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



- Low noise figure
- Fully weather proof.
- Ultra-high Sensitivity
- Compact construction
- Excellent temperature stability

### Specifications:

PHYSICAL CONDITION	
Constructions:	Polycarbonate radome, detachable cable/connector for easy mount, rubber-O-ring between top radome and screw base for waterproof
Dimensions:	60mm(Dia.) x 45mm(H)
Weight:	65grams (w/o cable & connector).
Color:	Standard in ivory white or Black, other colours available upon request.
Mounting:	Bulkhead mount with 0.8 inch threaded wing nut (standard accessory).
Cable & Connector	
RF cable:	1.5 meter RG58 +BNC(M) other length (optional)
Pulling strength:	6 Kg @ 5sec. molded plastic on connector end for strain relief.
Connector	TNC(M)or SMA(M) or N(M) or -----
Antenna Element	
Center Frequency:	1575Mhz & 1596-1610 MHz
Polarization:	R.H.C.P. (Right Handed Circular Polarization).
Bandwidth	10 MHz min. @S11≤-10 dB, 24MHz typ. @S11<-8dB
Gain @ 10° Elevation:	2 dBi typical.
Axial Ratio:	3 dB max.
Output VSWR:	1.5 max
Output Impedance:	50 ohm
Low Noise Amplifier	
Power Gain:	1570 Mhz : 29db typ 1610 Mhz : 29db typ
Bandwidth:	50 MHz min.
Noise Figure:	1.5 typ

<b>BJTEK Navigation Inc.</b> Filter	SAW Filter 30 dB min @ fo± 100MHz * fo=1590.MHz	<a href="https://www.bjnav.com/">https://www.bjnav.com/</a>
Supply Voltages:	2.3~5.5V DC.	
Current Consumption:	2.5V : 6.6mA Typ. 3V : 10.6mA Typ. 4V : 14.6mA Typ. 5V : 20.6mA Typ.	
Output Impedance:	50W ohm	
<b>Overall Performance: (antenna element, LNA &amp; coax cable)</b>		
Center Frequency:	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	
Noise Figure:	2.0 max.	
Axial Ratio:	3 dB max.	
Bandwidth:	10MHz min.	
VSWR:	2.0 max.	
Output Impedance:	50W ohm	
<b>Environmental</b>		
Operating Temperature:	-40°C~ +85°C.	
Storage Temperature:	-40°C~ +90°C.	
Relative Humidity:	95% non-condensing.IPX8	
Water Resistance:	100% waterproof.	

\* This specification is subject to change without prior notice

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