



Environmentally Sealed GPS Antenna  
Designed by Rojone Australia



## FEATURES

- **High Performance**
- **Harsh Environment Sealed Radome**

The MaxiNav Antennas was developed specifically for harsh environment applications. The housing is manufactured from high impact, UV stabilized plastic formed to accommodate a snugly fitted O Ring. Once the radome has been heat sealed, the MaxiNav becomes the ideal choice for marine & high humidity environments, and for applications in mining or heavy transport where the antenna may be subjected to high levels of dust, dirt, water, oils, solvents or possible abuse.

## Specifications

### AF – Active Bandpass Filtered Version

Frequency	1575 MHz
Bandwidth	20 MHz
Boresight Gain	7.7dBi
Antenna VSWR	1.2:1 Max
Polarization	RHCP
Elevation	Hemispherical
Azimuth	Omni Directional
Temp range	-25 to +85 Deg C
Dimensions	126 x 126 x 22mm

Filter Type	5 Section Cavity BPF
3dB Frequency Band	1545-1585 MHz
Centre Frequency Band	1565 MHz
Bandwidth	40 MHz
Insertion Loss	< 2.0dB
Rejection	> 80dB @ fc +/- 50 MHz
Rejection	> 30dB @ fc +/- 120 MHz
Rejection	> 80dB
Re-entrant Frequency	>6GHz Typ >8GHz
Impedance	50 Ohms
VSWR	< 1.2:1

### A – Active 5 Volt Version

Amplifier Gain	32dB Min, 35dB Max
Noise Figure	< 1.0dB
Bandwidth	10 MHz
Output VSWR	1.3:1 Max
1dB Comp Pt	0dBm
O/P 3 <sup>rd</sup> Order	+10dBm
Reverse Isolation	> +50dB
Impedance	50 Ohm
Supply Voltage	5.0 +/- 0.25VDC @ 35mA

### 3A – Active 3 Volt Version

Amplifier Gain	27dB Typical
Noise Figure	1.5dB Typical
Bandwidth	10 MHz
Output VSWR	2.0:1 Max
1dB Comp Pt	0dBm
O/P 3 <sup>rd</sup> Order	+10dBm
Reverse Isolation	> +50dB
Impedance	50 Ohm
Supply Voltage	3 OR 5+/- 0.25VDC @ 14mA



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