



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 rd 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 rd Order	+10dBm
Reverse Isolation	> +50dB
Impedance	50 Ohm
Supply Voltage	3 OR 5+/- 0.25VDC @ 14mA



PART NUMBER OPTIONS

GPS

P

5

2

S

P

3

Cable Length in Metres

P Plug
S Socket

Connector Type
S SMA
B BNC
M MCX
T TNC
N N Type
O No Connector

Mounting Options
1 Screw Mount – Side Cable Exit
2 Screw Mount – Bottom Exit, Cable Tail
3 Pole Mount – Bottom Exit, Cable Tail
4 Magnetic Mount – Bottom Cable Exit
5 Pole Mount – Bottom Connector Exit
6 Custom Requirement
8 Screw Mount - Bottom Connector Exit
9 Magnetic Mount – Side Cable Exit

MaxiNav Model

A Active 5 Volt Standard
AF Active Filtered 5 Volt
3A Active 3 Volt Special
P Passive

