



## L1 and Dual L1-L2 GPS High Performance Antenna



### Specifications

<b>Frequency Range</b>	1530-1580 MHz ( <i>L1 only</i> )
	1530-1580 & 1220-1230 MHz ( <i>Dual L1/L2</i> )
<b>Gain of Antenna Element</b>	> 6 dBic @ Azimuth
	> -10 dBic @ 5° elevation
<b>Polarisation</b>	RHCP (Right Hand Circular)
<b>Input Impedance</b>	50 Ohms
<b>Azimuth Coverage</b>	360°
<b>Elevation Coverage</b>	5-90°
<b>Filtering</b>	> 70dB @ FO +/- 50MHz for L2
	> 70dB @ FO +/- 100MHz for L1
<b>LNA Gain</b>	50dB typical – standard product
<b>Input Return Loss</b>	20dB typical
<b>Noise Figure of LNA</b>	< 0.7dB (0.5dB typical) @ 20°C
	< 1.0dB @ 50°C
<b>RF Input Blocking</b>	> 20dBm @ FO +/- 100MHz
<b>DC Supply</b>	5 to 15 volts
<b>Power Consumption</b>	90mA typical
<b>RF Connector</b>	N Female socket, 50 Ohms
<b>Operating Temperature</b>	-40°C to +85°C
<b>Storage Temperature</b>	-50°C to +90°C
<b>Humidity</b>	< 95% Non-condensing
<b>Weight</b>	600g excluding pole mount
<b>Size (max)</b>	180mm diameter, height 40mm (excluding connector)



## Part Number Options

### A-GPS A5 F 2D R 8 13G A

#### AMPLIFIER GAIN OPTIONS

<b>Blank</b>	DdB Passive or TX Version
<b>A</b>	50dB Gain
<b>B</b>	30dB Gain
<b>C</b>	20dB Gain
<b>D</b>	13dB Gain

#### CONNECTOR OPTIONS

<b>13G</b>	N Female Square Flange Mount
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#### MOUNTING OPTIONS

<b>5</b>	Pole (3/4") Mount, Bottom Exit Connector
<b>5X</b>	Pole (5/8") Survey Mount, Bottom Exit Conn.
<b>6</b>	Custom Mounting Requirement
<b>8</b>	Screw Mount, Bottom Exit Connector

<b>R</b>	RX - Receive Antenna Only
<b>T</b>	TX - Transmit Antenna Passive DdB ONLY

<b>2</b>	L1 - 1575MHz Military Radome
<b>2D</b>	L1/L2 1535 & 1220MHz Dual Band Mil. Rad.

<b>Blank</b>	No special requirement
<b>C</b>	Filtering - Custom Requirement
<b>F</b>	Filtered - Internal Filtering

#### ANTENNA TYPE

<b>A3</b>	Active (Amplified) - 3 Volts
<b>A5</b>	Active (Amplified) - 5 to 15 Volts @ 90mA
<b>P</b>	Passive

