

# L1 & Dual L1-L2 GPS Antenna



## Specifications

Frequency Range	1530-1580 MHz (L1 Only) 1530-1580 & 1220-1230 MHz (Dual L1/L2)
Gain of Antenna Element	> 6dBic @ Azimuth > -10dBic @ 5 Degree Elevation
Polarisation	RHCP (Right Hand Circular)
Input Impedance	50 Ohms
Azimuth Coverage	360 Degrees
Elevation Coverage	5-90 Degrees
Filtering	> 70dB @ FO +/-50MHz for L2 > 70dB @ FO +/-100MHz for L1
LNA Gain	50dB Typical – Standard Product
Input Return Loss	20dB Typical
Noise Figure of LNA	< 0.7dB (0.5dB typical) @ 20C < 1.0dB @ 50C
RF Input Blocking	> 20dBm @ FO +/- 100MHz
DC Supply	5 to 15 Volts
Power Consumption	90mA Typical
RF Connector	N Female Socket 50 Ohms
Operating Temperature	-40 to +85C
Storage Temperature	-50 to +90C
Humidity	< 95% Non Condensing
Size (max)	180mm Diameter, Height 40mm (excluding connector)
Weight	600 Grams excluding pole mount



# PART NUMBER OPTIONS

<b>GPS</b>	<b>A5</b>	<b>F</b>	<b>2D</b>	<b>R</b>	<b>8</b>	<b>13G</b>	<b>A</b>																		
							<table border="1"> <tr> <td>Blank</td> <td colspan="2">Amplifier Gain Options</td> </tr> <tr> <td>A</td> <td colspan="2">0dB Passive or TX Version</td> </tr> <tr> <td>B</td> <td colspan="2">50dB Gain</td> </tr> <tr> <td>C</td> <td colspan="2">30dB Gain</td> </tr> <tr> <td>D</td> <td colspan="2">20dB Gain</td> </tr> <tr> <td></td> <td colspan="2">13dB Gain</td> </tr> </table>	Blank	Amplifier Gain Options		A	0dB Passive or TX Version		B	50dB Gain		C	30dB Gain		D	20dB Gain			13dB Gain	
Blank	Amplifier Gain Options																								
A	0dB Passive or TX Version																								
B	50dB Gain																								
C	30dB Gain																								
D	20dB Gain																								
	13dB Gain																								
							<table border="1"> <tr> <td>13G</td> <td colspan="2">CONNECTOR OPTIONS</td> </tr> <tr> <td></td> <td colspan="2">N Female Square Flange Mount</td> </tr> </table>	13G	CONNECTOR OPTIONS			N Female Square Flange Mount													
13G	CONNECTOR OPTIONS																								
	N Female Square Flange Mount																								
							<table border="1"> <tr> <td>5</td> <td colspan="2">Mounting Options</td> </tr> <tr> <td>5X</td> <td colspan="2">Pole (3/4") Mount, Bottom Exit Connector</td> </tr> <tr> <td>6</td> <td colspan="2">Pole (5/8") Survey Mount, Bottom Exit Conn</td> </tr> <tr> <td>8</td> <td colspan="2">Custom Mounting Requirement</td> </tr> <tr> <td></td> <td colspan="2">Screw Mount. Bottom Exit Connector</td> </tr> </table>	5	Mounting Options		5X	Pole (3/4") Mount, Bottom Exit Connector		6	Pole (5/8") Survey Mount, Bottom Exit Conn		8	Custom Mounting Requirement			Screw Mount. Bottom Exit Connector				
5	Mounting Options																								
5X	Pole (3/4") Mount, Bottom Exit Connector																								
6	Pole (5/8") Survey Mount, Bottom Exit Conn																								
8	Custom Mounting Requirement																								
	Screw Mount. Bottom Exit Connector																								
							<table border="1"> <tr> <td>R</td> <td colspan="2">RX - Receive Antenna Only</td> </tr> <tr> <td>T</td> <td colspan="2">TX - Transmitt Antenna Passive 0dB ONLY</td> </tr> </table>	R	RX - Receive Antenna Only		T	TX - Transmitt Antenna Passive 0dB ONLY													
R	RX - Receive Antenna Only																								
T	TX - Transmitt Antenna Passive 0dB ONLY																								
							<table border="1"> <tr> <td>2</td> <td colspan="2">L1 - 1575MHz Military Radome</td> </tr> <tr> <td>2D</td> <td colspan="2">L1/L2 1535 &amp; 1220Mhz Dual Band Mil Radome</td> </tr> </table>	2	L1 - 1575MHz Military Radome		2D	L1/L2 1535 & 1220Mhz Dual Band Mil Radome													
2	L1 - 1575MHz Military Radome																								
2D	L1/L2 1535 & 1220Mhz Dual Band Mil Radome																								
							<table border="1"> <tr> <td>Blank</td> <td colspan="2">No special requirement</td> </tr> <tr> <td>C</td> <td colspan="2">Filtering - Custom Requirement</td> </tr> <tr> <td>F</td> <td colspan="2">Filtered - Internal filtering</td> </tr> </table>	Blank	No special requirement		C	Filtering - Custom Requirement		F	Filtered - Internal filtering										
Blank	No special requirement																								
C	Filtering - Custom Requirement																								
F	Filtered - Internal filtering																								
							<table border="1"> <tr> <td>A3</td> <td>Active (Amplified)</td> <td>3 Volts</td> </tr> <tr> <td>A5</td> <td>Active (Amplified)</td> <td>5 to 15 Volts @ 90mA</td> </tr> <tr> <td>P</td> <td>Passive</td> <td></td> </tr> </table>	A3	Active (Amplified)	3 Volts	A5	Active (Amplified)	5 to 15 Volts @ 90mA	P	Passive										
A3	Active (Amplified)	3 Volts																							
A5	Active (Amplified)	5 to 15 Volts @ 90mA																							
P	Passive																								

