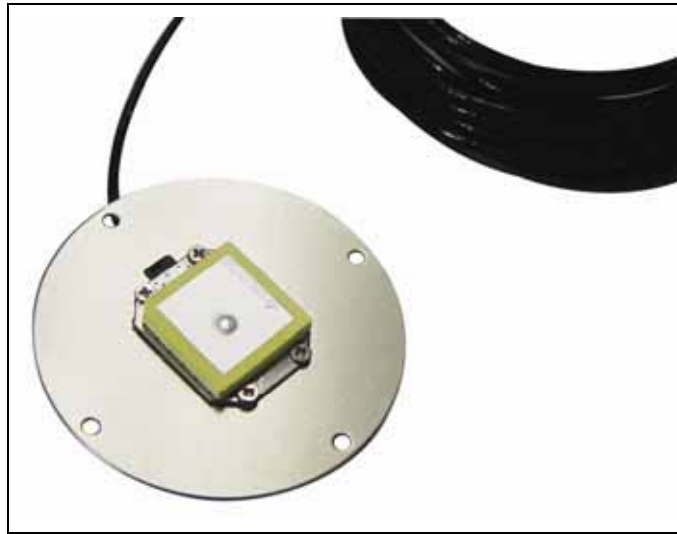


## A-132 GPS Active Antennas



**A-132 GPS Active Antennas** is the only innovating design antenna with performance, quality and a Power protection circuit built-in to protect the active LNA's, and most importantly the host GPS receiver down the connector end from the danger of a SHORT circuit external antenna (Note: GPS receiver front-end can be destroyed or de-graded by an external GPS antenna in an over-load or short conditions. The **A-132** is a low profile GPS active antennas system for the next generation multi-purpose GPS mobile antenna products for Telematics, Fleet Management, Navigations and AVL applications. This small print size of the antenna design does not reflect over-all performance, since the antenna itself needs no ground plane aid to deliver the L1 band small signal carrier that originates from the 24 orbiting USA satellites located thousands of miles over-head and with the ground reception power sensitivity at over -130dB. The **A-132** antenna is also design as a standard power input voltages in range from +3Vdc to +6Vdc with reverse polarity shutdown, over-current sense shutdown and an EMC power line suppression. The most important over-all design concept of the **A-132 GPS Active Antennas** is the complete protections of the host sensitive GPS receiver made from any manufacturer that it serve and can also be destroy or de-grade using an improper design antenna.

<b>General</b>		2 Stages active LNA
		Dual Filters, (HPF & LPF(lump element))
		+28dB gain
	Architecture Design	Dielectric Patch antenna
		Low Noise Low drop-out, Linear Regulator
		GPS receiver short circuit protect
		Low Loss RG/174 Coax cable
		Aluminum Base/ PC+ Radome Plastic
<b>Performance</b>	Receiving Frequency	L1 Band(1575MHz)
	Output Impedance	50 ohms
	Polarization's	Right Hand Circular (RHC)
	Bandwidth	10dB Mhz @ -3dB point
	VSWR	1.5 Typical @ 1575MHz
	Elev. Angle Coverage	5~90 degree
	Az. Bearing Coverage	360 degree
	Filtering	Dual(BPF <10 Mhz B/W, LPF @1576 MHz Stop-band @ 1585MHz)
	Over-all Gain	28dB (typical including 4dB cable loss & Filters)
	Over-all NF	<1.8dB @fo, 2dB max.
	LNA Characteristic	K=>1 Un-conditionally Stable
	RF Insertions loss	0.1dB, leakage power 100mW /1 watt input
	Power Consumption	11mA to 13mA (max)
	Power Input Sensor	Reverse Polarity Short Circuit shutdown
	Over-Current Sensor	Thermal Over-current shutdown >+150degreeC
<b>Electrical</b>	Power Input	+3Vdc to + 6Vdc input, Auto Switching
<b>Physical</b>	Dimensions	31 x 24.5 x 7mm +/-0.5mm
	Mount	Magnetic
	Radome Color	Black
	Coax Connector	BNC, SMA, SMB, MCX, MMCX, GT-5
	Coax Cable	RG-174U double shielded 5m, Low Loss 0.7dB/m
<b>Environmental</b>	Operating temperature	-30 to + 85 degree C
	Storage	-40 to + 90 degree C
		Open Frame with 3" Flanges & RF shield

A-132 GPS Active Antennas RHCP response / ANTENNA RADIATION PATTERN

