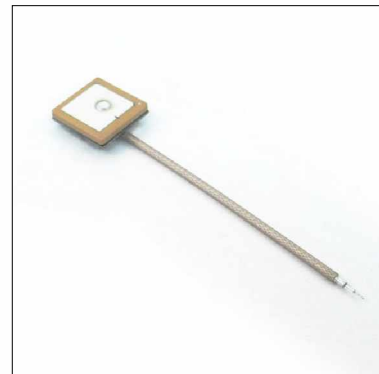


General Description

The Siretta Echo 13 GPS antenna is a low profile patch antenna with an integrated 16dB, Low Noise Amplifier.

A small size and efficient performance is achieved from just 16dB gain by the use of a single stage LNA with just a ± 1.0 MHz tolerance. This allows quicker satellite acquisition and re-acquisition from just 13mA at 3V. The 16dB gain helps prevent over saturation of a GPS receiver RF front end, common with many of today's GPS receiver engines. The 5.1mm thick design incorporates the latest 2mm ceramic patches available.

The Echo 13 can be easily embedded by OEM's and Systems Integrators via its adhesive pad fitted under the LNA shield whilst a wide range of cable lengths can be supplied with various connector configurations.



Features	Benefits
16dB Single Stage LNA	Allows integration with today's high sensitivity GPS receiver engines
Small Size	15 x 15 x 5.1mm LxWxH – ideal for low profile applications
Highly Sensitive	± 1 mm tolerance enables faster TTFF and re-acquisition times
Fixed Via Adhesive Pad	Easily mounts inside enclosure – no fixing screws needed
RoHS compliant	Meets all EU compliance criteria for electronic goods

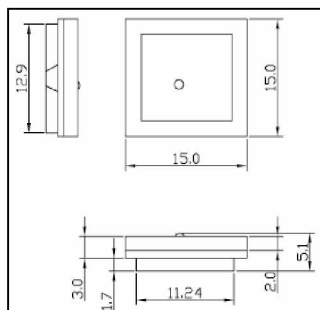
Key Specifications - Mechanical

Dimensions:	15x15x5.1mm (LxWxH)
Cable:	Please refer to table below
Connector:	Please refer to table below
Mounting method:	Adhesive pad under LNA
Weight:	3.4g (excluding cable)

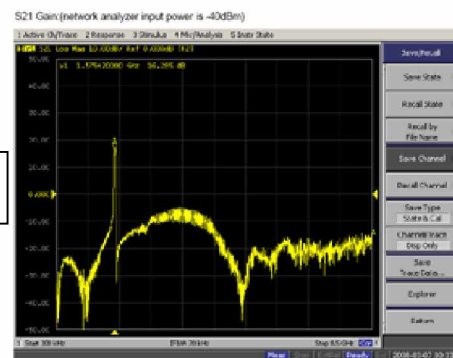
16dB gain measured at 1575.42MHz

Key Specifications - Electrical

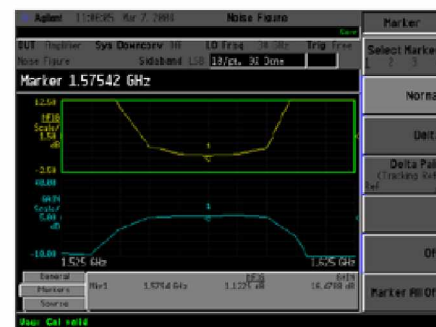
Temperature Range:	-40°C to 85°C
Operating Frequencies:	1575.42MHz ± 1.023 MHz
Radiating element:	ceramic patch
Polarisation:	RHCP
Impedance:	50 Ohms
VSWR:	2.0 max
Voltage:	2.5 – 3.5V
Current:	13mA @ 3V



± 1.0 MHz tolerance at 1575.42MHz



Noise figure value (noise meter)



Specification/Description	Part Number
16dB GPS embedded patch antenna 60mm cable stripped and tinned end	ANTB0006H1628AP11
16dB GPS embedded patch antenna 60mm cable UFL	ANTB0006G1528AP11
16dB GPS embedded patch antenna 60mm cable MMCX rectangle plug	ANTB0006K1628AP11