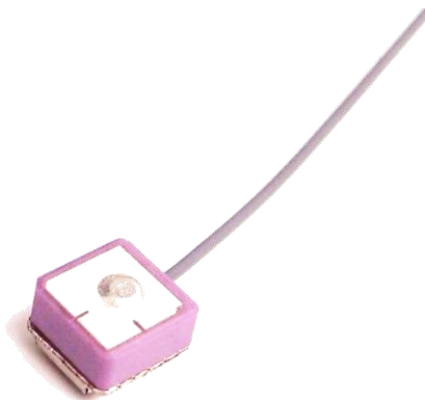


Key Features

- $16 \pm 1\text{dB}$
- Internally mounted
- 10mm x 10mm x 6.2mm
- RoHS compliant



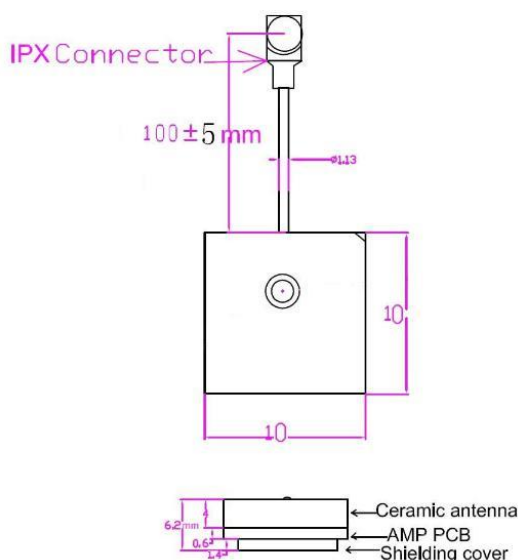
General Description

This is Siretta's smallest GPS embedded patch antenna measuring at only 10 x 10 x 6.2mm, making this antenna ideal for applications where minimising space is a premium requirement.

The Echo 19 has a built in LNA giving 16dB gain from just 10-14mA @ 3.3VDC current consumption and operating at 3.0 - 5.0V DC. Combined with an exceptionally small size, it is ideally suited to low power, small size applications and where it is being used with GPS modules with a built in pre amplifier circuit.

Additional Considerations

- Ideal for GPS receivers with built in LNA
- Designed for embedded applications with small footprint
- Compatible with many GPS engine manufacturers equipment
- Can be mounted on any surface
- Meets all EU compliance criteria for electronic goods



Rev 1.2

Key Specifications - Environmental

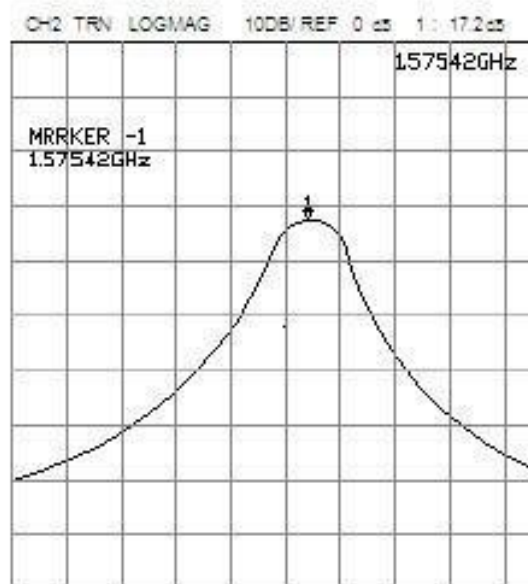
Operating temperature range:	-40 to +85°C
Storage temperature range:	-45 to +100°C
Impedance:	50 ohm
Gain:	16 ± 1dB
VSWR:	1.8:1
DC voltage:	3.0 ~ 5.0V DC
DC current:	10 ~ 15mA @ 3.3V DC
Centre frequency:	1575.42 ± 1.023MHz
Noise limiter:	<1.2dB
Polarization:	RHCP

Key Specifications - Mechanical

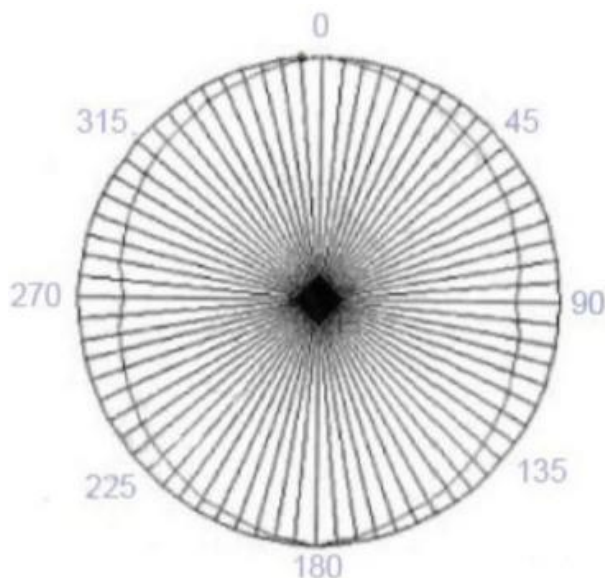
Dimensions:	10mm x 10mm x 6.2mm
Cable:	RF1.13 55mm
Connector:	IPEX

Test Reports

Gain



Radiation Pattern



Part Number	Description
ECHO19/0.1M/UFL/S/S/17	10 x 10mm Active GPS Internal Antenna, 100mm Cable, uFL Connector