



Echo 27 v2.0

15 x 15mm GPS Internal Active Antenna



Key Features

- Active GPS
- LNA gain of 27dB
- Centre frequency of 1575.42MHz

General Description

The Echo 27 is a GPS embedded ceramic patch antenna that combines excellent performance characteristics at a low operating voltage.

This updated V2 version provides a huge 5dBi LNA amplifier gain over the predecessor.

With a built in LNA giving 27dB gain from just 6.6mA current consumption and operating between 2.3 and 5.5V DC this combination is ideally suited to low power applications.

Supplied as standard with 100mm coax cable and terminated with a uFL/IPEX connector. Alternative cable lengths and connector types can be fitted for volume requirements.

Additional Considerations

- Ceramic filter to reduce noise
- Small footprint allows integration into tight spaces
- Meets all EU compliance criteria for electronic goods





Echo 27 v2.0

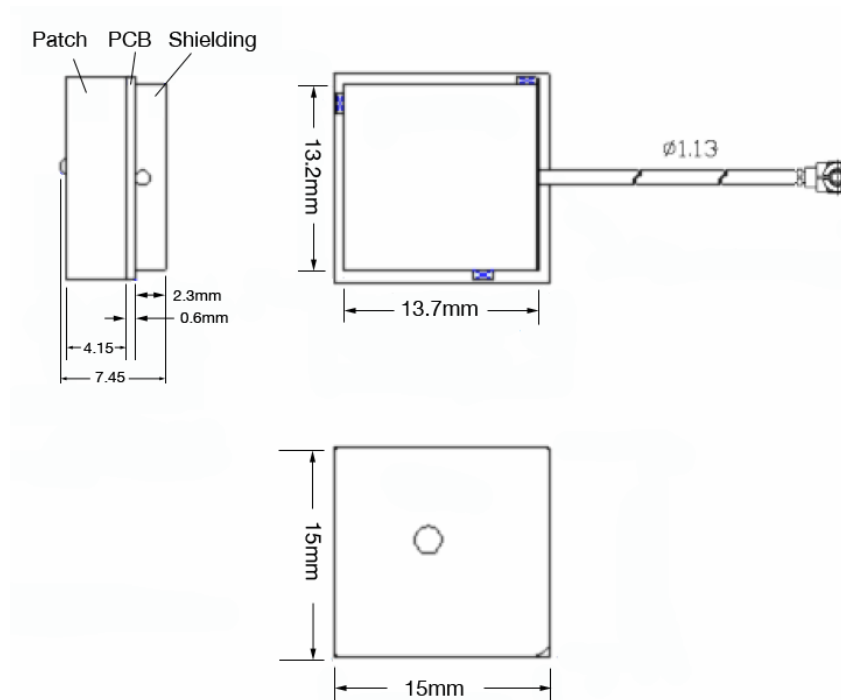
15 x 15mm GPS Internal Active Antenna

Electrical Specification

Operating temperature:	-40 to +90°C
Relative humidity:	10 - 95%
Impedance:	50 ohm
LNA Gain:	27dB typ
LNA VSWR:	2.0 (max)
Supply voltage:	2.3V - 5.5V DC
Current consumption:	6.6 - 16mA
Centre frequency:	1575.42MHz $\pm$ 1.023MHz
Bandwidth:	CF $\pm$ 5MHz
Polarization:	RHCP
Dielectric Antenna Gain at Zenith	1 dBi typ
Dielectric Antenna Gain at 10° Elevation	-7 dBic max
Dielectric Antenna VSWR	<2.0:1

Mechanical Specification

Dimensions:	15 x 15 x 7.45mm
Cable:	1.13mm
Connector:	IPEX
Mounting:	Internal



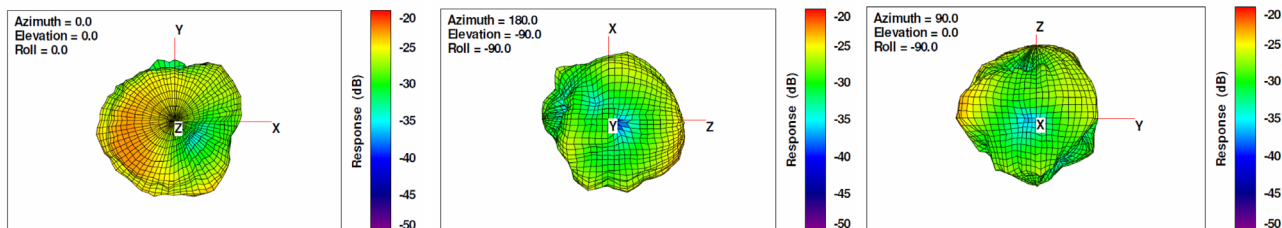


Echo 27 v2.0

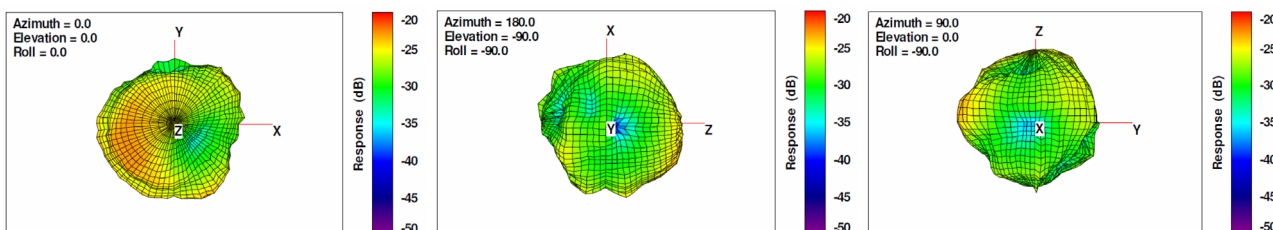
15 x 15mm GPS Internal Active Antenna

Radiation Patterns

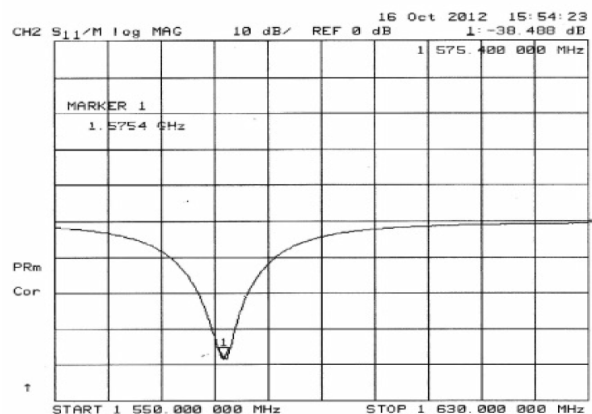
1575MHz



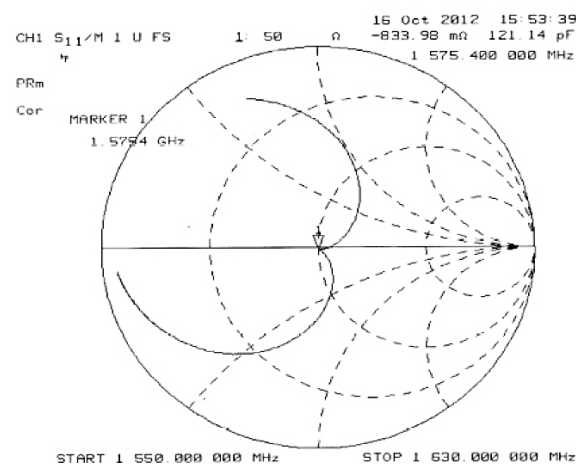
1575.42MHz



Return Loss



Impedance



Ordering Details:

Part number

Description

ECHO27/0.1M/IPEX/S/S/15

GPS Internal Active Antenna, 100mm Cable, IPEX Connector