

Echo 27

15x15mm GPS Internal Active Antenna 27dBi Gain



Key Features

- Active GPS
- LNA gain of 27dB
- Centre frequency of 1575.42MHz
- Small footprint: (15 x 15 x 7.45mm)

General Description

GPS embedded patch antennas combine excellent performance characteristics at a low operating voltage in a small sized format making it an ideal antenna where power consumption and board space is a key factor.

This updated 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 it operates between 2.3 – 5.5V DC. Combined with a small size of just 15mm x 15mm it is ideally suited to low power, small sized applications.

Additional Considerations

- Built in LNA (Low Noise Amplifier) that produces high gain potential
- Ceramic filter to reduce noise
- Small footprint allows integration into tight spaces
- 1.13mm cable type

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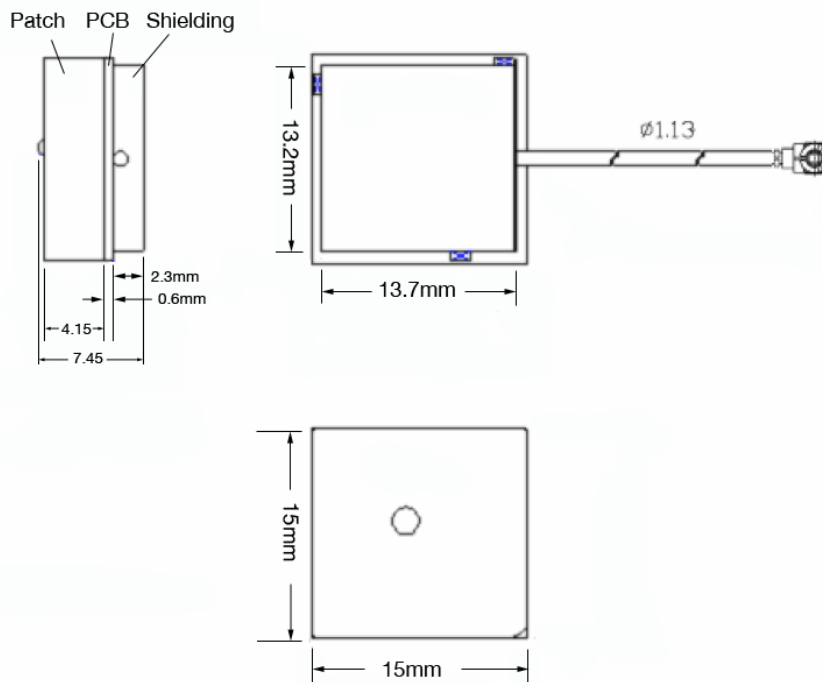
15x15mm GPS Internal Active Antenna 27dBi Gain

Electrical Specifications

Operating Temperature:	-40 - +90°C
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:	1575.42 ± 1.023MHz
Bandwidth:	CF ± 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 Specifications

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

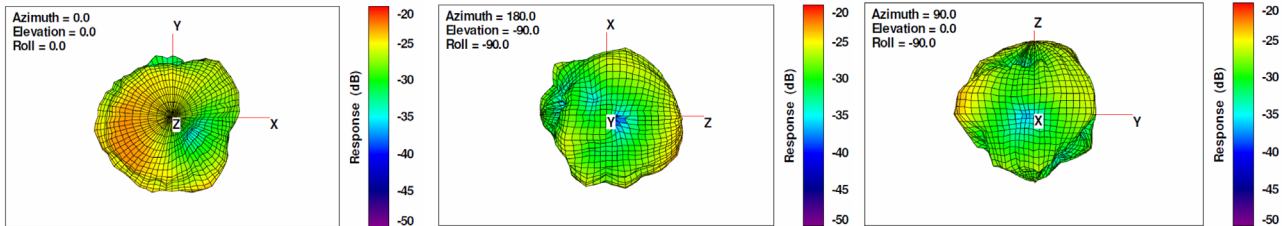


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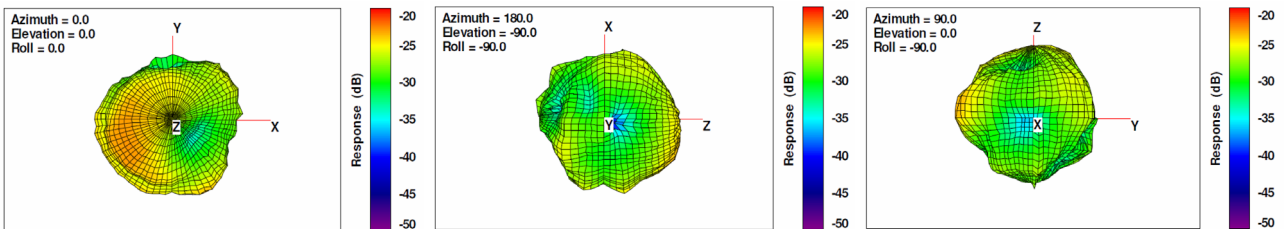
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Radiation Patterns

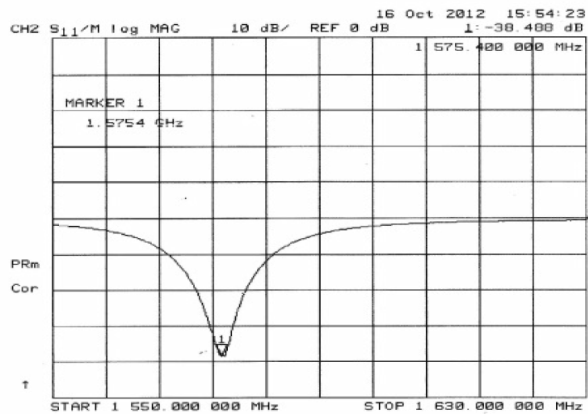
1575MHz



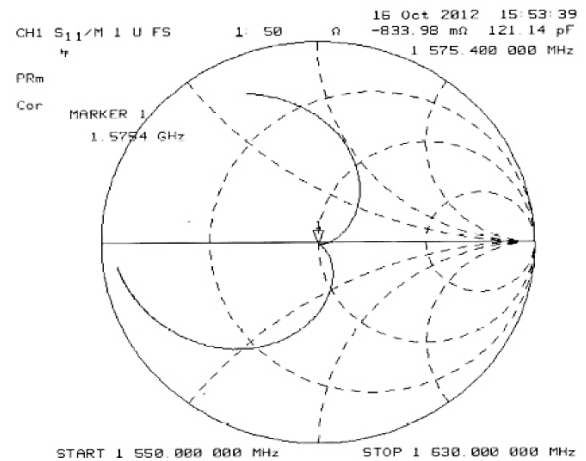
1575.42MHz



Return Loss



Impedance



Ordering Details:

Part number	Description
ECHO27/0.1M/IPEX/S/S/15	15x15mm GPS Internal Active Antenna 27dBi Gain