



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

Echo 27

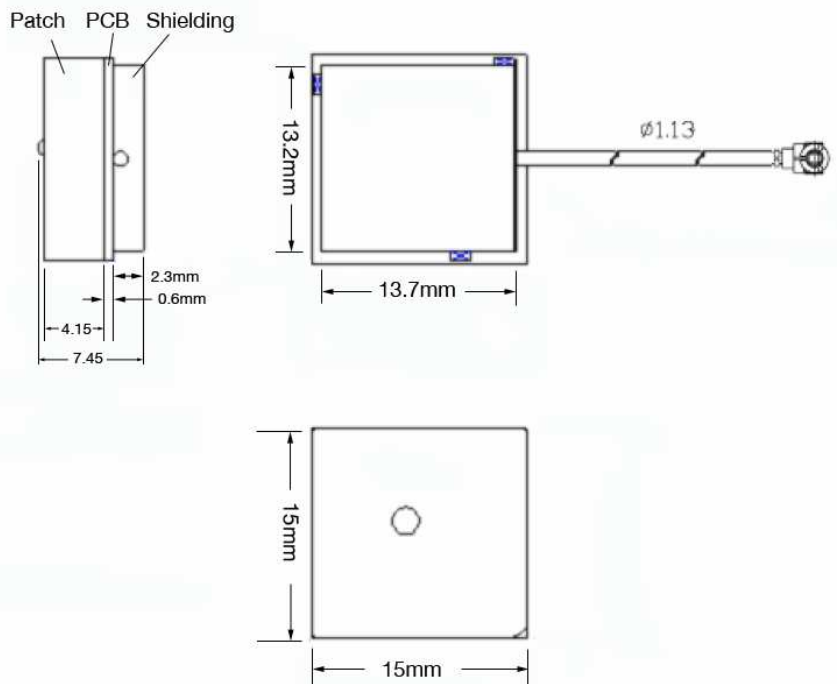
15x15mm GPS Internal Active Antenna 27dBi Gain

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

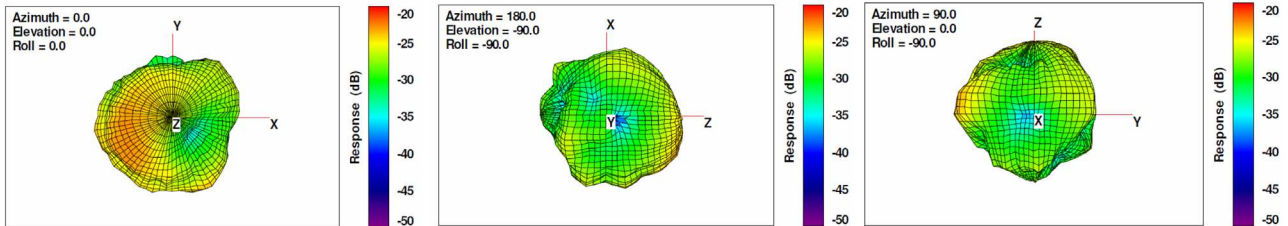


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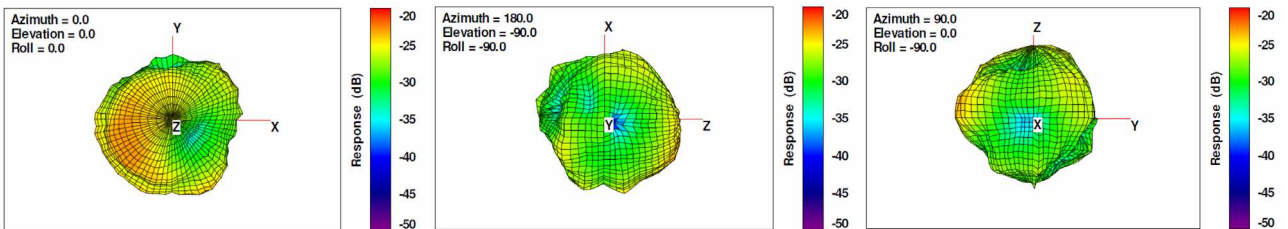
15x15mm GPS Internal Active Antenna 27dBi Gain

Radiation Patterns

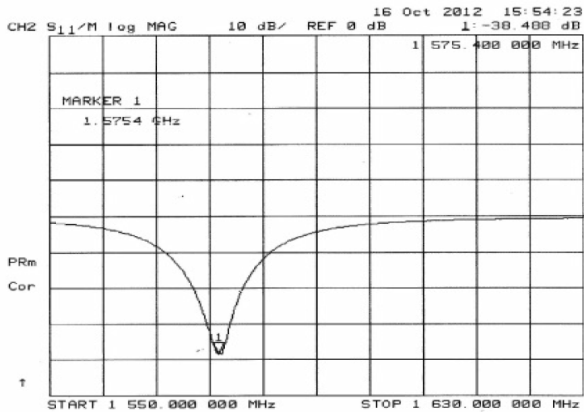
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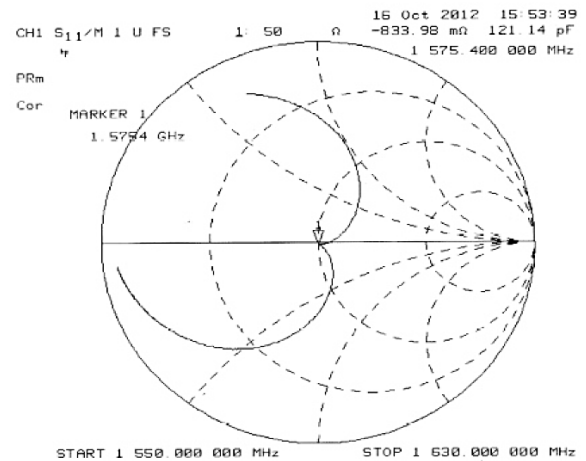
1575.42MHz



Return Loss



Impedance



Ordering Details:

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