

Echo 26A

18 x 18mm Patch GPS Internal Active Antenna



Key Features

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

General Description

The Echo 26A is an active, embedded GPS antenna, measuring at 19.7 x 19.6 x 6.6mm. This high gain ceramic patch antenna is perfect for GPS applications designed to include embedded solutions that can still produce high levels of performance despite its small form factor. With its built in Low Noise Amplifier (LNA), this active GPS antenna produces an impressive peak gain of 27dB that drives strong satellite signal reception and transmission strength as well as influencing a quick time to fix to satellites.

These two factors are vital for a GPS system to maintain live positional information, especially when the signal from the satellite is weak. Common applications include: vehicle/fleet/asset tracking, mobile applications and general position services.

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 26A

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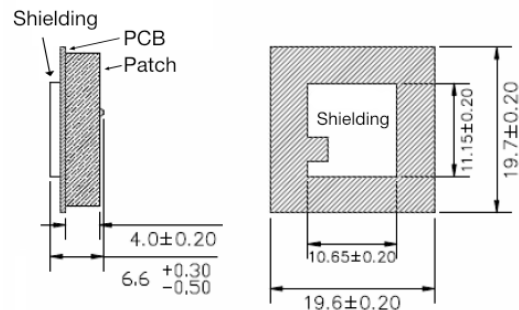
Key Specifications - Electrical

Operating temperature:	-40 to +90°C
Relative humidity:	10 to 95%
Impedance:	50 ohm
Gain:	27dB typical
VSWR:	<2.0 :1 Max
Supply voltage:	2.3~5.5V DC
Current consumption:	2.5V - 6.6mA 3V - 8.6mA 4V - 12.6mA 5V - 16mA
Centre frequency:	1575.42MHz ± 1.023 MHz
Bandwidth:	10MHz
Polarization:	RHCP
Noise figure:	1.5dB typ
Ex-band attenuation SAW:	30dB min @fo±50MHz 35dB min @fo±100MHz

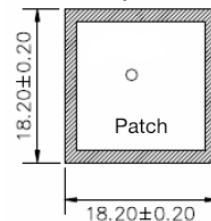
Key Specifications - Mechanical

Dimensions:	19.7 x 19.6 x 6.6mm
Cable:	1.13mm
Connector:	IPEX
Mounting:	Internal

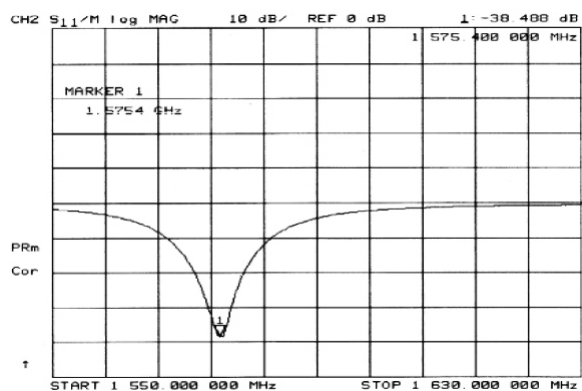
Overall Dimensions with PCB



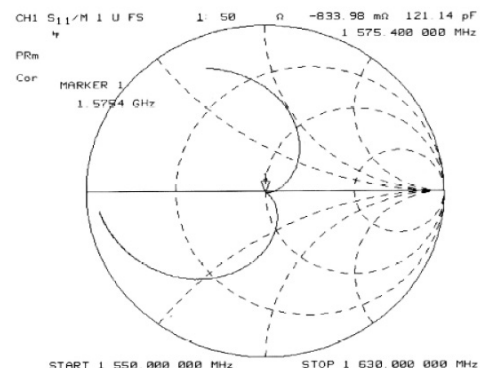
Patch Only Dimensions



Return Loss



Smith Chart

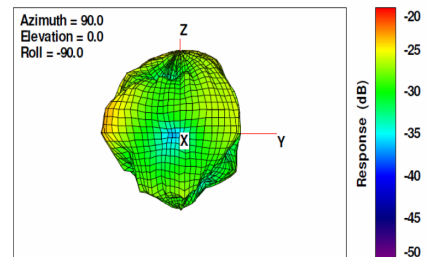
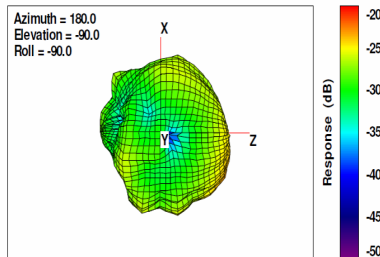
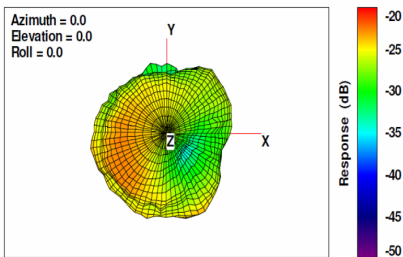


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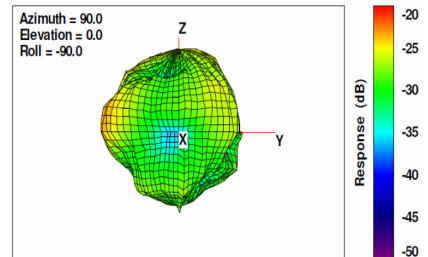
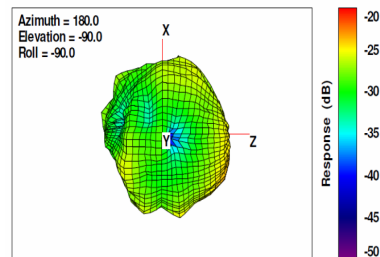
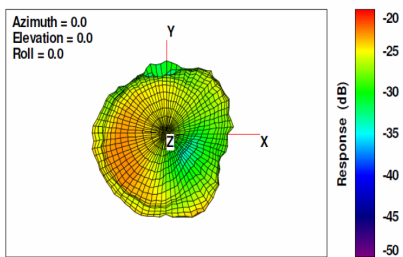
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Radiation Patterns

1575 MHz



1575.42 MHz



Ordering Details:

Part number	Description
ECHO26A/0.1M/IPEX/S/S/15	GPS Internal Active Antenna, 100mm Cable, IPEX Connector