

Echo 26



Quality Tests

Moisture Proof

The device should satisfy the electrical characteristics specified in specifications over page after exposed to the temperature $40\pm2^{\circ}$ C and the relative humidity $90\sim95\pm$ RH for 96 hours and $1\sim2$ hours recovery time under normal conditions.

Vibration Resist

The device should satisfy the electrical characteristics specified over page after applied to the vibration of $10{\sim}55$ Hz with amplitude of 1.5mm for 2 hours in each X, Y and Z directions.

Drop Shock

The device should satisfy the electrical characteristics specified overpage after dropping onto the hard wooden board from the height of 30cm for 3 times each facet of the 3 dimensions of the device.

High Temperature Endurance

The device should satisfy the electrical characteristics specified overpage after exposed to temperature $80\pm5^{\circ}$ C for 24 ± 2 hours and $1\sim2$ hours recovery time under normal temperature.

Key Features

- GPS Active
- LNA gain of 28dB
- Centre frequency of 1575.42MHz
- Small footprint: 18.6 x 18.6mm

Additional Considerations

 Built in LNA (Low Noise Amplifier) that produces high gain potential

18.6 x 18.6mm GPS Internal Active Antenna

- Ceramic filter to reduce noise
- Small footprint allows integration into tight spaces
- · Variety of cable lengths available
- 1.13mm cable type

Low Temperature Endurance

The device should also satisfy the electrical characteristics overpage after exposed to the temperature -40 ± 5 °C for 24 ± 2 hours and $1\sim2$ hours recovery time under normal temperature.

Temperature Cycle Test

The device should also satisfy the electrical characteristics specified overpage after exposed to the low temperature of -25° C and high temperature $+85^{\circ}$ C for 30 ± 2 minutes each by 5 cycles and 1~2 hours recovery time under normal temperature.

Rev 1.0

A member of the Olancha Group Ltd Registered in England No. 08405712 VAT Registration No. GB163 04 0349 Siretta Ltd Basingstoke Road Spencers Wood Reading Berkshire RG7 1PW sales fax email web

+44(0)118 976 9014 +44(0)118 976 9020 sales@siretta.co.uk www.siretta.co.uk



Echo 26 18.6 x 18.6mm GPS Internal Active Antenna

Key Specifications - Electrical

| Operating temperature: | -40 to +85°C |
|------------------------------|--------------------------------------|
| Relative humidity: | Up to 75% |
| Impedance: | 50 ohm |
| Gain: | 28dB ± 2dB |
| VSWR: | <2.0 (min) |
| Supply voltage: | 3~5V DC |
| Current consumption: | 5~10mA |
| Centre frequency: | 1575MHz ± 3MHz |
| Bandwidth: | CF ± 5MHz |
| Polarization: | RHCP |
| Noise figure: | <2 |
| Ex-band attentuation: | 30dB@CF ± 40MHz |
| Vibration: | 10 to 55Hz with 1.5mm amplitude 2hrs |
| Environmentally friendly: | RoHS compliant |
| | |

Key Specifications - Mechanical

| Dimensions: | 18.6 x 18.6mm |
|-------------|------------------|
| Cable: | RG1.13 or others |
| Connector: | IPEX or others |
| Mounting: | Internal |



Radiation Patterns



YZ Plane



Siretta Ltd Basingstoke Road Spencers Wood Reading Berkshire RG7 1PW sales

email

web

fax

+44(0)118 976 9014 +44(0)118 976 9020 sales@siretta.co.uk www.siretta.co.uk

A member of the Olancha Group Ltd Registered in England No. 08405712 VAT Registration No. GB163 04 0349



Echo 26

18.6 x 18.6mm GPS Internal Active Antenna

XZ Plane



Ordering Details:

Part number

Description

ECHO26/0.1M/IPEX/S/S/26

GPS Internal Active Antenna, 100mm Cable, IPEX Connector

A member of the Olancha Group Ltd

Registered in England No. 08405712 VAT Registration No. GB163 04 0349

Siretta Ltd Basingstoke Road Spencers Wood Reading Berkshire RG7 1PW sales +44(0)118 976 9014 +44(0)118 976 9020 email sales@siretta.co.uk www.siretta.co.uk

fax

web