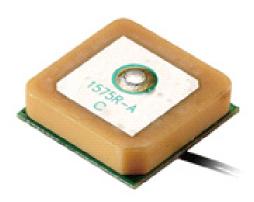


Echo 26

18.6 x 18.6mm GPS Internal Active Antenna



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

Quality Tests

Moisture Proof

The device should satisfy the electrical characteristics specified in specifications over page after exposed to the temperature 40±2°C and the relative humidity 90~95 ± RH for 96 hours and 1~2 hours recovery time under normal conditions.

Vibration Resist

The device should satisfy the electrical characteristics specified over page after applied to the vibration of 10~55Hz 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±5°C for 24±2 hours and 1~2 hours recovery time under normal temperature.

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 1~2 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°C for 30±2 minutes each by 5 cycles and 1~2 hours recovery time under normal temperature.



Echo 26

18.6 x 18.6mm GPS Internal Active Antenna

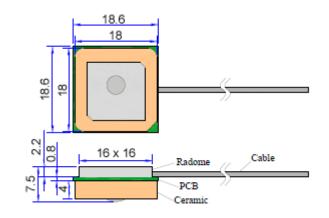
Key Specifications - Electrical

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

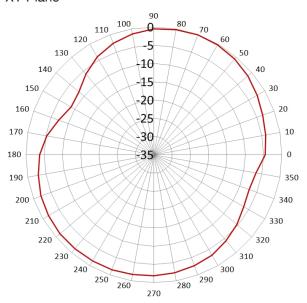
Dimensions: 18.6 x 18.6mm

Mounting: Internal

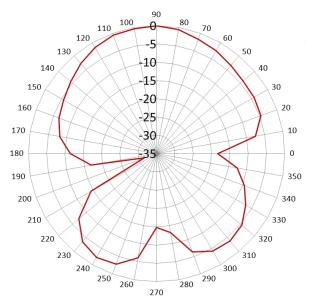


Radiation Patterns

XY Plane



YZ Plane

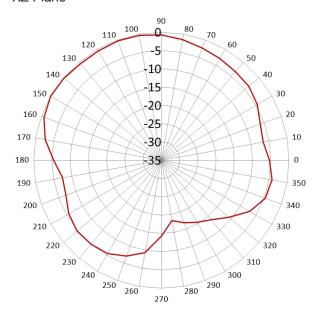




Echo 26

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

fax