



DATASHEET



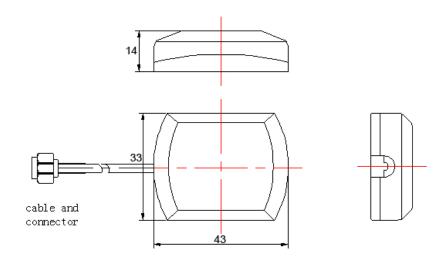
1 Part Number

Serial Number

A: GPS-GLONASS Antenna

LTE:Lte Electronic Co.

2 Dimension Unit mm



3 Electrical Characteristics

3.1 Dielectric Antenna

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No.	Item	Specifications	Post Environmental Tolerance
1	Center Frequency MHz	1602-1610MHz 1575.42±3N	MHz ± 3 MHz
2	Band Width MHz	$\pm 5~\mathrm{MHz}$	±1 MHz
3	V.S.W.R in BW	1.5 1	_
4	Gain Zenith	3 dB	$\pm 0.5~\mathrm{dB}$
5	Polarization	RHCP	_
6	Impedance	50 Ω	_
3.2 LNA/Filter Form 2			
No.	Item	Specifications	Post Environmental Tolerance
1	LNA Gain	$29\pm1~\mathrm{dB}$	$\pm 2.5~\mathrm{dB}$
2	Noise Figure	1.5 dB	_
3	Filter Out Band Attenuation	12dB Min f0+50MHz 16dB Min f0-50MHz	$\pm1.0~\mathrm{dB}$
4	DC Voltage	2.2~5 V	
5	DC Current	5~15 mA	
3.3 Mechanical Form 3			
No.	Item	Speci	ification
1	Cable	RG174 3m	1/5m or others
2	Connector	SMA/SMB/MCX or others	
3	Plastic Housing	Black	
4	Mounting	Magnet/Adhesive	

Reliability

Temperature: $40 \pm 5^{\circ}$ C Condition

> Load: DC= $5V \pm 0.5 V$ Quantity: 2000pcs Sustained Time: 480h

Environmental Specifications

Post Environmental Tolerance (Refer to the form 1~2)

Condition Temperature range $25\pm3^{\circ}$ C

Relative Humidity range 55~75%RH

Operating Temperature range -40°C~+85°C

Storage Temperature range -40°C~+100°C

5.1 Moisture Proof

The device should satisfy the electrical characteristics specified in form $1\sim2$ 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 condition.

5.2 Vibration Resist

The device should satisfy the electrical characteristics specified in form 1~2 after applied to the vibration of 10 to 55Hz with amplitude of 1.5mm for 2 hours each in X, Y and Z directions.

5.3 Drop Shock

The device should satisfy the electrical characteristics specified in form 1~2 after dropping onto the hard wooden board from the height of 30cm for 3 times each facet of the 3 dimensions of the device.

5.4 High Temperature Endurance

The device should satisfy the electrical characteristics specified in form $1\sim2$ after exposed to temperature 80 ± 5 °C for 24 ± 2 hours and 1~2 hours recovery time under normal temperature.

5.5 Low Temperature Endurance

The device should also satisfy the electrical characteristics specified in form 1~2 after exposed to the temperature $-40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 24 ± 2 hours and to 2 hours recovery time under normal temperature.

5.6 Temperature Cycle Test

The device should also sat isfy the electrical characteristics specified in form 1~2 after exposed to the low temperature -25°C and high temperature +85 °C for 30 ± 2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

6.Put the antennas in 1m deep water for 12h, and find 100% waterproof.

