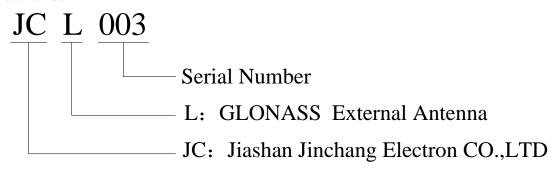


# **GLONASS Active Antenna**

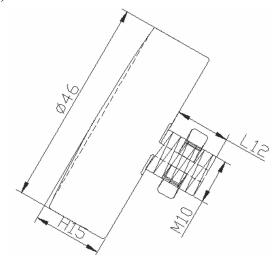
Model: JCL003



1 Part Number



2 Dimension (Unit: mm)



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# JIASHAN JINCHANG ELECTRON CO.,LTD

# 3 Electrical Characteristics

### 3.1 Dielectric Antenna

### Form 1

No.	Item	Specifications	Post Environmental Tolerance
1	Center Frequency (MHz)	1590 MHz	±3 MHz
2	Band Width (MHz)	±25 MHz	±1 MHz
3	V.S.W.R (in BW)	1.5 : 1	_
4	Gain (Zenith)	3 dB	±0.5 dB
5	Polarization	RHCP	_
6	Impedance	50 Ω	_

# 3.2 LNA/Filter

### Form 2

No.	Item	Specifications	Post Environmental Tolerance
1	LNA Gain	28±2 dB	±2.5 dB
2	Noise Figure	1.5 dB	_
3	DC Voltage	2.2~5 V	
4	DC Current	5~15 mA	

# 3.3 Mechanical

### Form 3

No.	Item	Specification
1	Cable	RG174 5m
2	Connector	FAKRA
3	Plastic Housing	Black
4	Mounting	Screw

# 3 Reliability

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

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

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### 4 Environmental Specifications

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

Condition: Temperature range  $25 \pm 3^{\circ}$ C

Relative Humidity range 55~75%RH

Operating Temperature range  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ 

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

#### 5.1 Moisture Proof

The device should satisfy the electrical characteristics specified in form 1~2 after exposed to the temperature  $40\pm2$ °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  $1\sim2$  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  $80\pm5\,^{\circ}\text{C}$  for  $24\pm2$  hours and  $1\sim2$  hours recovery time under normal temperature.

### 5.5 Low Temperature Endurance

The device should also satisfy the electrical characteristics specified in form  $1\sim2$  after exposed to the temperature  $-40^{\circ}\text{C} \pm 5^{\circ}\text{C}$  for  $24\pm2$  hours and to 2 hours recovery time under normal temperature.

### 5.6 Temperature Cycle Test

The device should also satisfy the electrical characteristics specified in form  $1\sim2$  after exposed to the low temperature  $-25^{\circ}$ C and high temperature  $+85^{\circ}$ C for  $30\pm2$  min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

# 5 Weatherproof

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

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