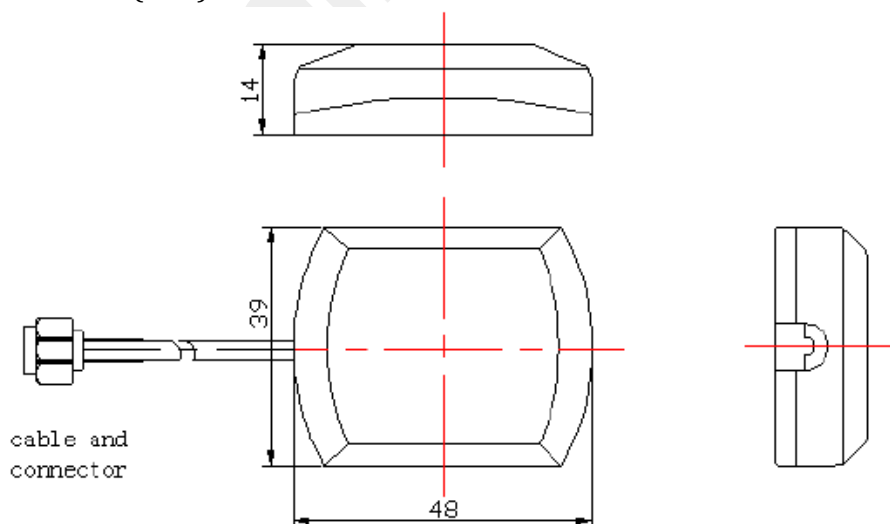


GPS external antenna

(model : G09)



1) Dimension(mm):



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2) electrical specification

----GPS antenna

NO.	ITEM	Features	Environmental testing of Tolerance
1	Central Frequency	1575.42 MHz	± 3 MHz
2	Bandwidth	± 5 MHz	± 1 MHz
3	VSWR	1.5:1	
4	Gain	3dB	± 0.5 dB
5	Polarization	RCPR	
6	natural impedance	50 Ω	

----Structure

NO.	ITEM	Features
1	Cable	RG174 3M/5M or others
2	Connection	SMA/SMB/MCX or others
3	Installation	MAGNET/STICKER
4	Plastic housing	Black

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NO	Item	FEATURE	Environmental testing of Tolerance
1	Low-noise amplifier gain	28 ± 2 dB	± 2.5 dB
2	Noise Figure	1.5dB	----
3	Band filter attenuation characteristics	12dB Min f_0+50 MHz 16dB Min f_0-50 MHz	± 1.0 dB
4	DC voltage	2.2~5V	
5	DC Current	5~15mA	

Post Environmental Tolerance (Refer to the form 1)

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

Relative Humidity range 55~75%RH

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

Storage Temperature range $-40^\circ\text{C} \sim +100^\circ\text{C}$

5.1 Moisture Proof

The device should satisfy the electrical characteristics specified in form 1 after exposed to the temperature $40 \pm 2^\circ\text{C}$ and the relative humidity 90~95% RH for 96 hours and 1~2 hours recovery time under normal condition.

5.2 Vibration Resist

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

5.6 Temperature Cycle Test

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

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