

**GPS Aerial For SMA** [KLS1-GPS-01-SMA](#)

## **GPS Aerial For SMA**

### **Order Information**

KLS1-GPS-01A-SMA-MS-RG174-3000MM

Series-01A(Size:48x40x13mm) / 01B(Size:43x34x13 mm) /

01C(Size:34x30x13 mm)

Connector Type:SMA

Connector Type:MS-Male Straight Connector / FS-Female Straight Connector

Cable Type:RG-174/RG-316.....

Cable Length-3000,5000 or other

### **Features :**

Compatible with GPS receivers/systems with a SMA connector for external antennas

Built-in GPS signal amplifier to enhance and improve GPS signal reception

Optional mounting: removable magnetic mount or adhesive mount (Default: magnetic mount)

Optional straight or right angle connector type (Default: straight type)

### **Specifications**

#### **Dielectric Antenna :**

Center Frequency: 1575.42MHz $\pm$ 3 MHz

V.S.W.R 1.5:1

Band Width:  $\pm$ 5 MHz

Impedence: 50 ohm

Peak Gain >3dBic Based on 7 x 7cm ground plane

Gain Coverage >-4dBic at -90° to +90° (over 75% Volume)

Polarization: RHCP

#### **LNA/Filter :**

LNA Gain (without cable): 28dB typical

Noise Figure 1.5dB

Filter Out Band Attenuation: (f0=1575.42 MHZ)

7dB in f0 $\pm$ 20MHZ

20dB in f0 $\pm$ 50MHZ

30dB in f0 $\pm$ 100MHZ

V.S.W.R < 2.0

DC Voltage 2.2V to 5.0V

DC Current < 15mA

#### **Mechanical :**

Weight: <110gram

Size: 48 x 40 x 13 mm or 43x34x13mm or 34x30x13 mm

Cable: RG174 5 meter or other

Connector: SMA or SMA/SMB/SMC/BNC/FME/TNC/MCX /MMCX

**Mounting: magnetic base or adhesive**

Housing color: Black

**Environmental :**

Working Temp: -40oC~+85oC

Storage Temp: -45oC~+100oC

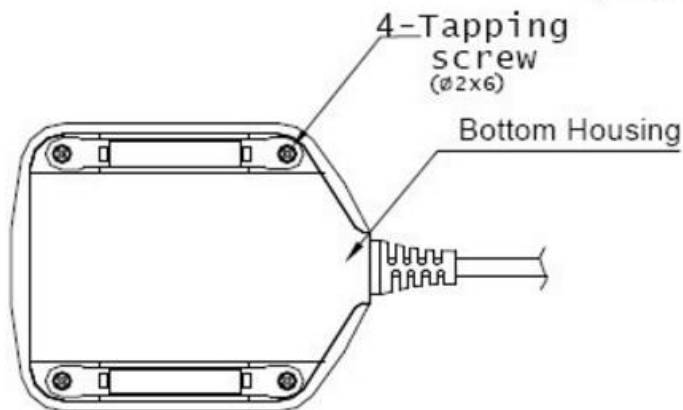
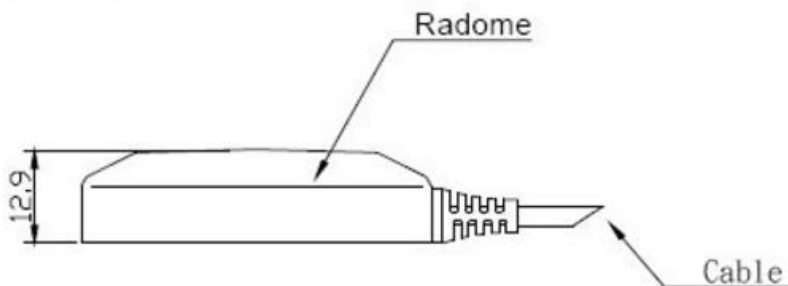
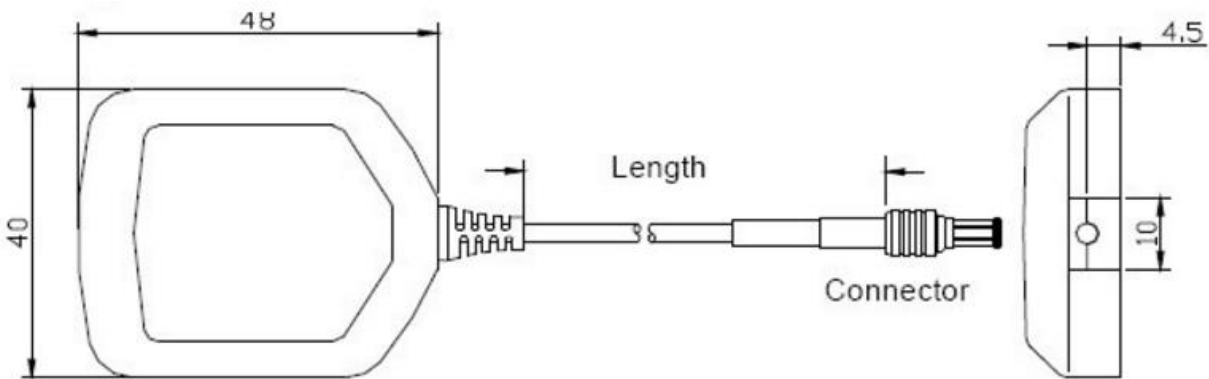
Vibration Sine sweep: 1g(0-p)10~50~10Hz each axis

Humidity Humidity: 95%~100% RH

Weatherproof: 100% Waterproof

Compatible GPS Devices:

All GPS receivers/systems with a SMA connector for external antennas.



**M Series**

Radome: ABS+PC

Bottom Housing: Aluminum

Unit: mm

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETER TOLERANCES:	
ANGLE	± 1°
1 PLACE DECIMALS	±0.2
2 PLACE DECIMALS	±0.15
3 PLACE DECIMALS	±0.05