

High Gain Dual Stage LNA for GNSS

- ✓ **More than 30 dB Gain with very low noise figure**
- ✓ **Suitable for L1/L2/L5/L6 bands**
- ✓ **Optional filter between the two amplifier stages**

■ Why does the above matter?

The market demands high gain and low noise LNA for any application that needs to compensate cable losses between antenna and receiver, including automotive antenna. New high precision positioning systems require more than just L1 (1.5 GHz) band, but additionally L2/5/6 (1.1-1.2 GHz) bands are used to achieve outstanding results.

The **NJG1187** realizes more than 30 dB gain with very low noise and can be tuned for L1 or L2/L5/L6 band by simply changing the values of external components. Furthermore, the **NJG1187** offers the flexibility to place a filter between the two amplifier stages, resulting in further improved immunity to out-of-band interferers without degradation of noise figures.

■ Features

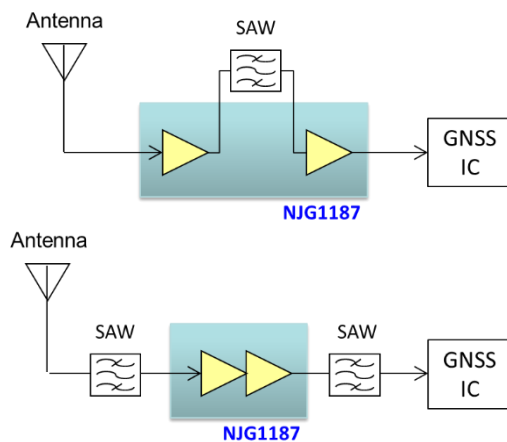
- ▶ Operating Voltage: 1.5 to 3.7 V
- ▶ Low Current Consumption: 8.0 mA typ.
- ▶ High Gain: 34 dB typ. @ L1 band
37 dB typ. @ L2/5 band
36 dB typ. @ L6 band
- ▶ Low Noise Figure: 0.6 dB typ. @ L1 band
0.65 dB typ. @ L2/5/6 band
- ▶ Small Package: 1.6 x 1.6 mm typ.
- ▶ Operating temperature: -40 to +105°C
- ▶ RoHS compliant and Halogen free, MSL1

▶ [datasheet Link](#)

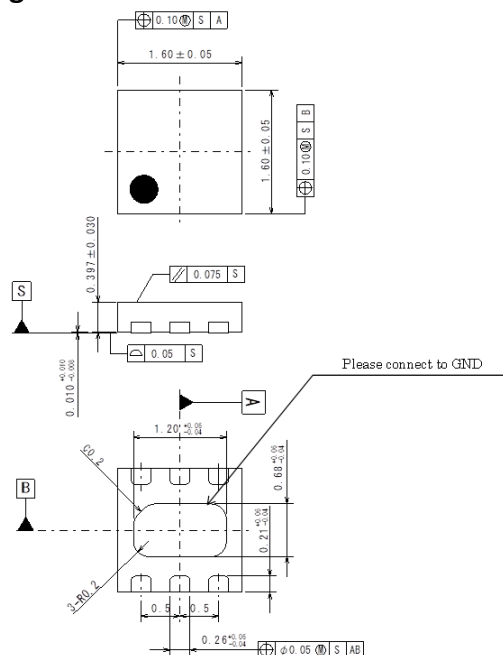


■ Application Example

- ▶ GNSS receive application
- ▶ Active antenna, dashboard camera, and navigation
- ▶ GNSS module



■ Package information



* All information, specifications and product descriptions in this document are subject to change at any time, without prior notice.
* Contact your local NJR office or your distributor to obtain the latest specifications before placing your product order.

