



ACEGA6606RT

Low Noise Amplifier for Global Navigation Satellite System (GNSS)

Description

ACEGA6606RT high gain, low noise amplifier (LNA) is dedicated to GPS, GLONASS Galileo and Beidou Standards. This product has an extremely low noise figure of 0.75dB, 18.0dB gain and excellent Linearity. ACEGA6606RT works under a 1.2V to 3.6V single power supply while consumes 7.0 mA current. In Power down (PD) mode, the power consumption will be reduced to less than 1uA. ACEGA6606RT uses a small LGA6 (1.1*0.7) package.

Features

- High Gain: 18.0dB
- Low noise figure 0.75dB @ 1575.42MHz
- Low operation current 7.0mA & PD current less than 1μA
- Single supply voltage range 1.2V to 3.6V
- Small package: 1.1mm x 0.7mm x 0.45mm
- Low cost BOM
- Lead -Free and RoHS-Compliant

Application

- Automotive Navigation
- Cell Phone with GPS
- MID/PAD with GPS
- Personal Navigation Device (PND)



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Absolute Maximum Conditions

Test condition: 50% duty cycle, $V_{SWR}=1:1$, 25°C

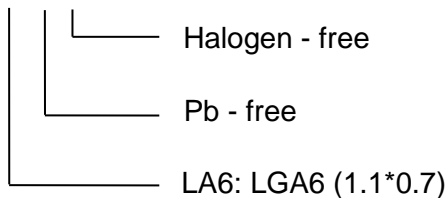
Item	Min	Max	Unit
Supply Voltage	-0.3	3.6	V
RF Input Power		10	dBm
Storage Temperature	-65	160	°C
Junction Temperature		150	°C
Operating Temperature	-40	85	°C
Lead Temperature (Soldering)		260	°C
Human Body Model, Class 1C	-2000	2000	V
Machine Mode ESD	-125	125	V
Charge Device Mode ESD	-500	500	V

Note:

Stresses beyond those listed in Absolute Maximum Ratings may cause permanent damage to the device. Exposure to absolute maximum rating conditions for extended periods may affect reliability.

Ordering Information

ACEGA6606RT XX + H





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Notes

ACE does not assume any responsibility for use as critical components in life support devices or systems without the express written approval of the president and general counsel of ACE Technology Co., LTD. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.
2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

ACE Technology Co., LTD.
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