



Taiwan Microelectronics Inc.

# TM1009

DFN 1.5x1.5mm-6L

~3GHz Low Noise Amplifier and Gain Block

The TM1009 is a low cost and low noise amplifier (LNA) IC, designed for GPS, DVB, PHS and DECT applications in L Band. The LNA is implemented as a two stages monolithic microwave integrated circuit (MMIC) with current limiter on chip. The low noise figure( NF) of device improves the sensitivity of the system, and its very low current consumption maximizes the battery life in portable equipments. The device is packaged in a compact 1.5mm by 1.5mm leadless package( DFN).

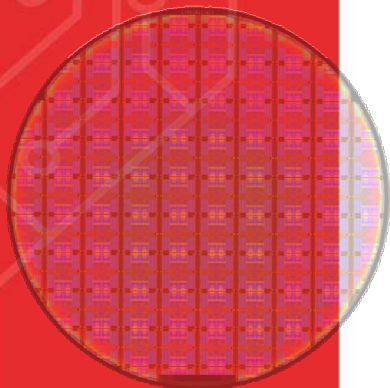
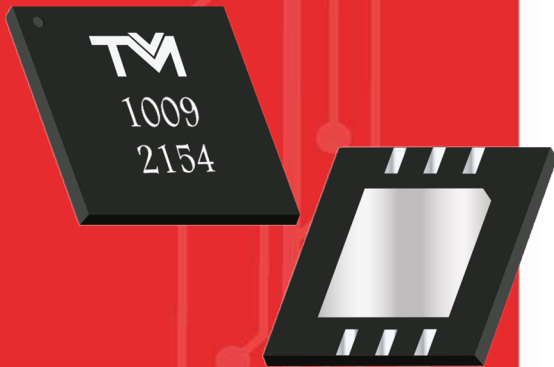
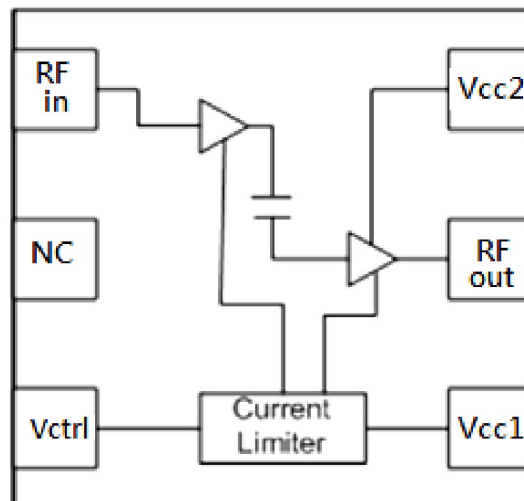
## Features

- Single Positive Supply: +3.3V
- Gain: 20dB, NF: 1.3dB at 2.4GHz
- Gain: 28.5dB, NF: 1.0 dB at 1.57542GHz
- Low Current Consumption: 10.5mA from a +5.5V supply
- DFN 1.5mm x 1.5mm-6L ultra small leadless package.
- RoHS Compliant
- MSL-1

## Applications

- WiFi
- GPS
- DVB
- PHS
- DECT

## Functional Block Diagram



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