

Low Noise Amplifier Module

AAS8100-A

Product Specification

V1.1

1. Product Features

Frequency Range: 700~1250MHz

Small-signal Gain: 20dB

Noise Figure: 0.5dB

Output P1dB: 20dBm

Bias Conditions: VDD=5V, IDQ=130mA

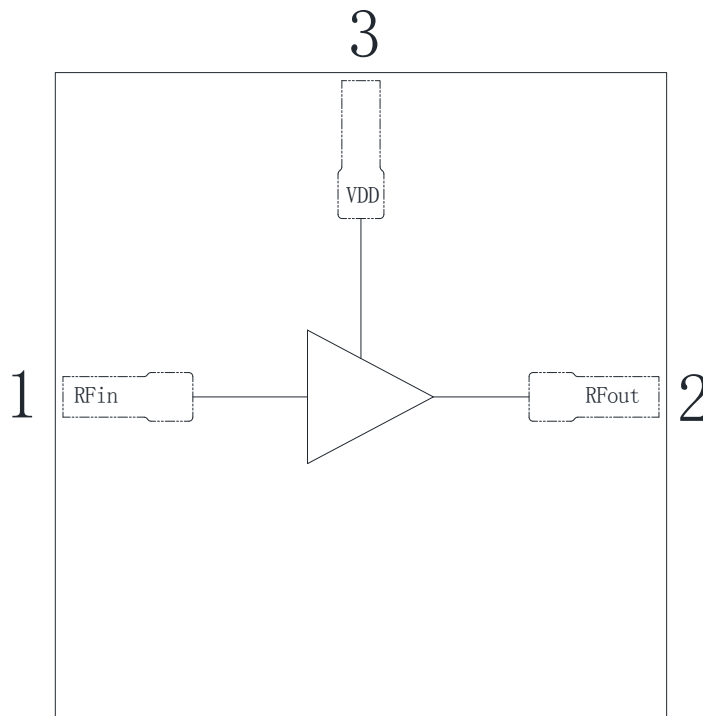
Module Dimensions: 4.0mm×4.0mm×1.5mm

2. Functional Overview

This product is a low noise amplifier (LNA) module operating within the frequency range of 700~1250MHz. It integrates a built-in low noise amplifier chip to realize low-noise signal amplification.

The module adopts a 4mm×4mm×1.5mm surface-mount leadless ceramic package with hermetic sealing to meet high-reliability application requirements. The pin pads are processed with nickel-palladium-gold plating, compatible with reflow soldering mounting processes.

3. Block Diagram



4. Typical Applications

Suitable for communication, radar and other related application fields.

5. Electrical Performance Parameters

5.1 RF Characteristics

Unless otherwise specified, all electrical parameters are measured under the following conditions: VDD=5V, IDQ=130mA, Ambient Temperature TA=+25° C, 50 Ω system and continuous wave (CW) operation.