

Driver Amplifier Chip

AAS3104

Product Datasheet

V1.0

1. Product Features

- Frequency Range: 300~900 MHz
- Small-signal Gain: 29 dB
- Output P1dB: 20 dBm
- Bias Condition: VDD = 5 V, IDQ = 85 mA,
Zin/Zout = 50 Ω
- Chip Dimensions: 1850 μm \times 1600 μm \times 100 μm

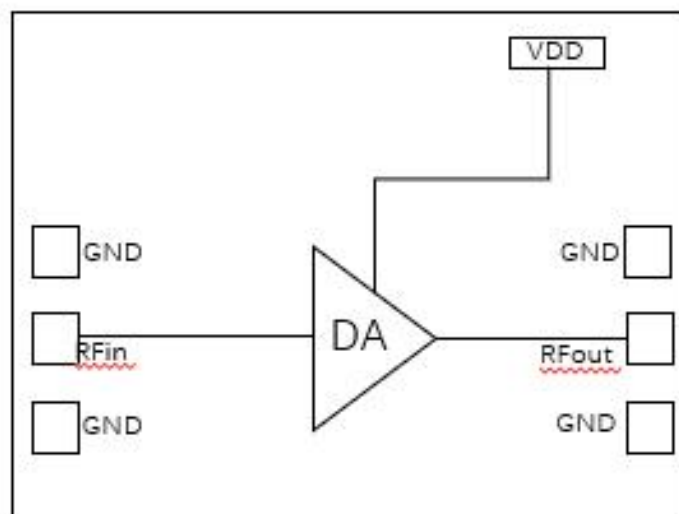
2. Functional Description

This chip is a driver amplifier operating in the 300~900 MHz frequency band. It uses a single +5 V power supply and delivers a gain of 29 dB with an output P1dB of 20 dBm at a quiescent current of 85 mA.

DC-blocking capacitors are integrated at the RF ports, and the port impedance is 50 Ω , eliminating the need for external matching circuits.

This chip is suitable for applications such as communications and radar systems.

3. Block Diagram



4. Typical Applications

- TDD or FDD systems
- General-purpose wireless systems

5. Electrical Parameters

5.1 RF Characteristics

Test Conditions: 50 Ω system, VDD = 5 V, IDQ = 85 mA, Temp = +25 °C (de-embedded data)