

# EVAL-CN0555-EBZ Reference Design

## RF Development Tool

### Product Overview

12-13-2023

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### Description

Analog Devices Inc. EVAL-CN0555-EBZ Reference Design implements CN0555 two-stage and USB-powered RF low noise amplifier. This board is designed to be used with the ADALM-PLUTO active learning module. The EVAL-CN0555-EBZ features ADL5523, a high-performance GaAs pHEMT low noise amplifier, and a small form factor with 25.4mm x 50.673mm x 1.5748mm dimensions.

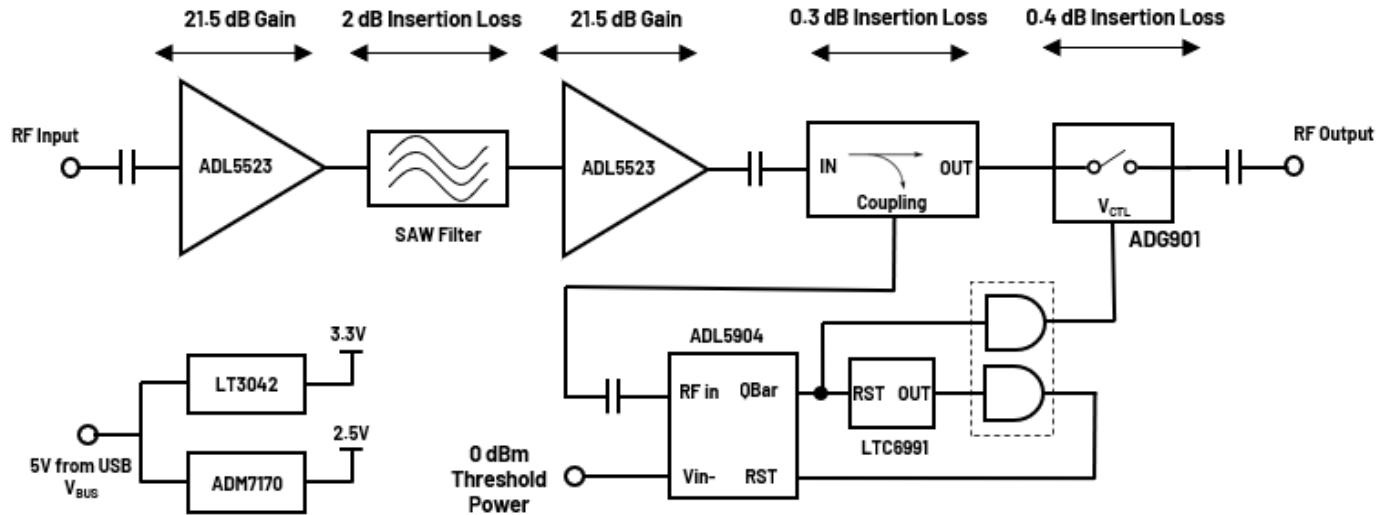


The EVAL-CN0555-EBZ reference design uses standard 50Ω SMA coaxial connectors for the RF signal path to integrate any RF systems easily. This reference design employs two LEDs to indicate the current state. The red LED (DS1) lights up during overpowering, and the green LED (DS2) lights up when the power is present on the board.

### Features

- ADL5523, a high-performance GaAs pHEMT low-noise amplifier
- Uses standard 50Ω SMA coaxial connectors
- Employs two LEDs to indicate the current state
- Small form factor with 25.4mm x 50.673mm x 1.5748mm dimensions

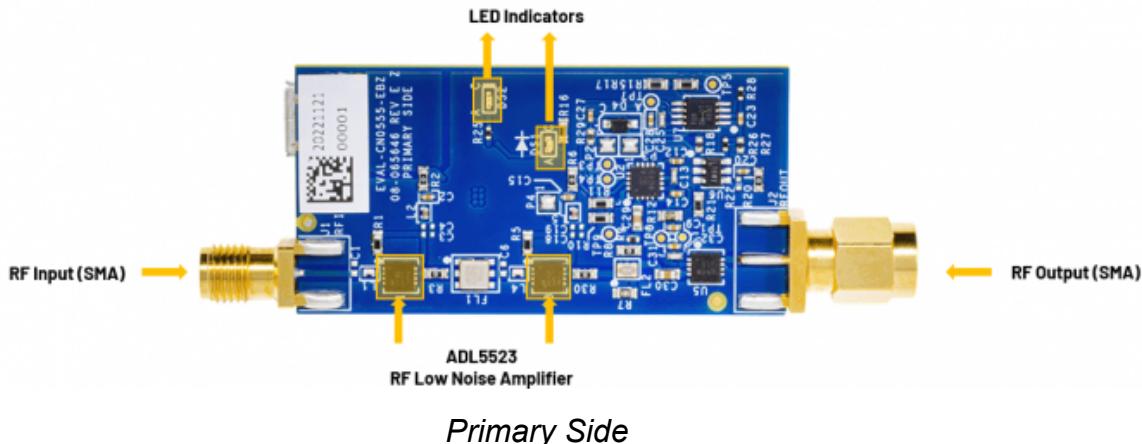
## Block Diagram



## Test Set Up

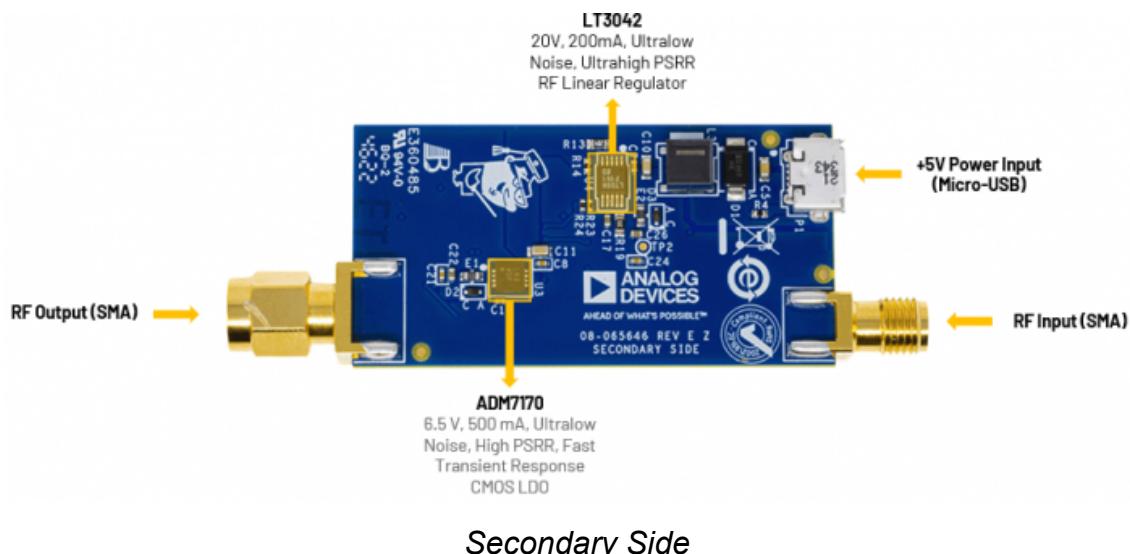


## Board Overview



**SMA Connectors** - These connectors are used for the RF input and output connections. J1 is the RF input SMA female connector, and J2 is the RF output SMA male connector. The J1 connector is connected to an antenna, and the J2 connector is connected to a radio or RF equipment.

**LED Indicators** - Two LEDs are used to indicate the current status in the reference design. The red LED (DS1) lights up during an overpowering event, and the green LED (DS2) lights up when the power is present on the board.



**Power Supply Connector** - P1 is the micro USB port that provides 5V power to the board.

## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/analog-devices/adi-eval-cn0555-ebz-ref-design/>