

EVALUATION KIT
AVAILABLE

MAXIM

DC-to-Microwave, +5V Low-Noise Amplifier

MAX2650

General Description

The MAX2650 is a low-noise amplifier for use from DC to microwave frequencies. Operating from a single +5V supply, it has a flat gain response to 900MHz. The MAX2650's low noise figure and high drive capability make it ideal for a variety of transmit, receive, and buffer applications.

The device is internally biased, eliminating the need for external bias resistors or inductors. In a typical application, the only external components needed are input and output blocking capacitors and a VCC bypass capacitor.

The MAX2650 comes in a 4-pin SOT143 package, requiring minimal board space.

Applications

Wireless Local Loop
Global Positioning Systems (GPS)
ISM Radios
Special Mobile Radios
Wireless Local-Area Networks
Cellular Base Stations
Set-Top Boxes

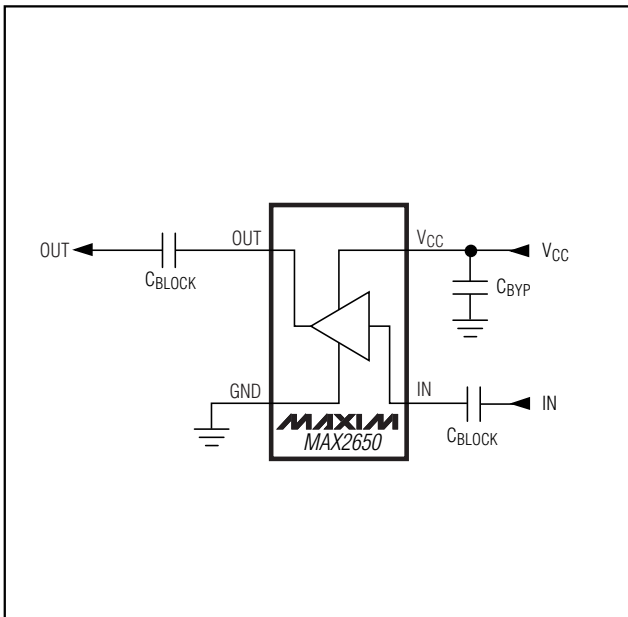
Features

- ◆ Internally Biased
- ◆ High Gain: 18.3dB at 900MHz
- ◆ 3.9dB Noise Figure
- ◆ Single +4.5V to +5.5V Operation
- ◆ -1dBm Output 1dB Compression Power
- ◆ Low-Cost Silicon Bipolar Design
- ◆ Ultra-Small SOT143 Package

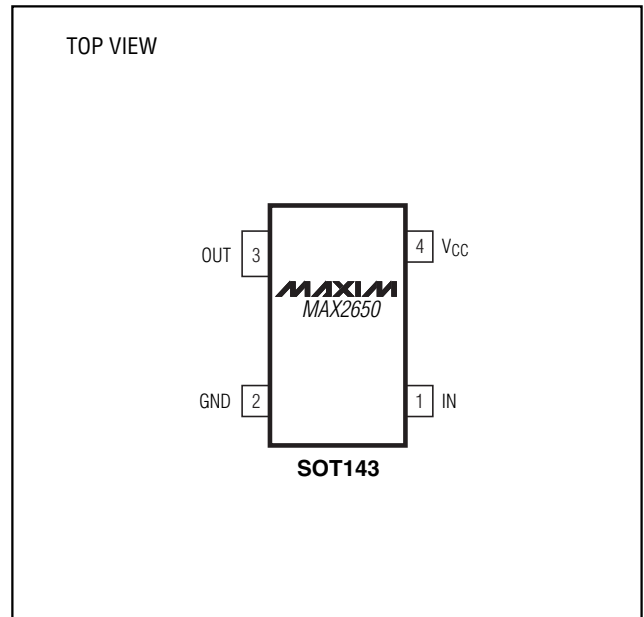
Ordering Information

PART	TEMP RANGE	PIN-PACKAGE
MAX2650EUS-T	-40°C to +85°C	4 SOT143-4

Typical Operating Circuit



Pin Configuration



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For pricing, delivery, and ordering information, please contact Maxim/Dallas Direct! at 1-888-629-4642, or visit Maxim's website at www.maxim-ic.com.