# MAX2630-MAX2633

# ADVANCE INFORMAT

All information in this data sheet is preliminary and subject to change. 10/96

# MIXIM

# VHF-to-Microwave, +3V, **Low-Noise Amplifiers**

Features

### **General Description**

The MAX2630/MAX2631/MAX2632/MAX2633 are lowvoltage, low-noise amplifiers for use from VHF to microwave frequencies. Operating from a single +2.7V to +5.5V supply, they have a flat gain response to 900MHz. Their low noise figure and low supply current make them ideal for receive, buffer, and transmit IF applications.

The MAX2630/MAX2631 are biased internally, eliminating the need for external bias resistors or inductors. The MAX2632/MAX2633 have a user-selectable supply current, adjustable by adding a single external resistor. which allows customized output power and gain according to specific application requirements. The MAX2631/MAX2633 feature a shutdown pin that allows them to be powered down to typically 0.1µA supply current. Aside from a single bias resistor required for the MAX2632/MAX2633, the only external components needed for this family of devices are input and output blocking capacitors and a VCC bypass capacitor.

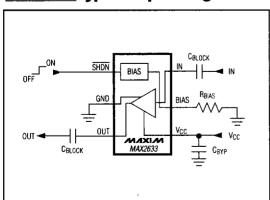
The MAX2630 comes in a 4-pin SOT143 package. requiring minimal board space. The MAX2631/ MAX2632 come in small, 5-pin SOT23-5 packages. The MAX2633 comes in a 6-pin SOT23-6 package.

## Annlications

	_Application.
Personal Communicating Systems	Cordless Phones
Global Positioning Systems	Cellular Phones

Wireless Local Area Networks ISM Radios TV Tuners Wireless Local Loops Land Mobile Radios Set-Top Boxes

# **Typical Operating Circuit**

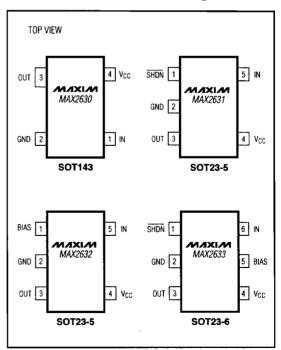


- ♦ Single +2.7V to +5.5V Operation
- ♦ Internally Biased (MAX2630/MAX2631)
- ◆ Adjustable Bias (MAX2632/MAX2633)
- ♦ 6.6mA Supply Current (insensitive to supply voltage)
- ♦ 0.1µA Shutdown Current (MAX2631/MAX2633)
- ♦ 3.7dB Noise Figure
- ♦ Ultra-Small SOT Packages

### Ordering Information

PART	TEMP. RANGE	PIN-PACKAGE
MAX2630EUS	-40°C to +85°C	4 SOT143
MAX2631EUK	-40°C to +85°C	5 SOT23-5
MAX2632EUK	-40°C to +85°C	5 SOT23-5
MAX2633EUT	-40°C to +85°C	6 SOT23-6

### Pin Configurations



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