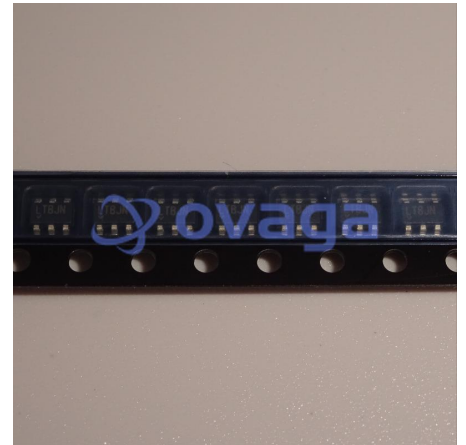


Oscillator & Pulse Generator IC, Resistor Set, 10kHz to 1MHz, 2.25 V to 5.5 V, TSOT-23-6

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOT23
Product Type	Clock & Timer ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC6906CS6#TRMPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC6906 is a precision programmable oscillator that is versatile, compact and easy-to-use. Micropower operation benefits portable and battery-powered equipment. At 100kHz, the LTC6906 consumes 12 $\mu$ A on a 3.3V supply.

A single resistor programs the oscillator frequency over a 10:1 range with better than 0.5% initial accuracy. The output frequency can be divided by 1, 3 or 10 to span a 100:1 total frequency range, 10kHz to 1MHz.

No decoupling capacitor is needed in most cases, yielding an extremely compact solution occupying less than 20mm<sup>2</sup>. Contact LTC Marketing for a version of the part with a shutdown feature or lower frequency operation.

The LTC6906 is available in the 6-lead SOT-23 (ThinSOT) package.

## Features

Supply Current: 12 $\mu$ A at 100kHz

Frequency Range: 10kHz to 1MHz

One Resistor Sets the Oscillator Frequency

Single Supply: 2.25V to 5.5V

No Decoupling Capacitor Needed

Start-Up Time Under 200 $\mu$ s at 1MHz

First Cycle After Power-Up is Accurate

150 $\Omega$  CMOS Output Driver

Low Profile (1mm) SOT-23 (ThinSOT™) Package

## Application

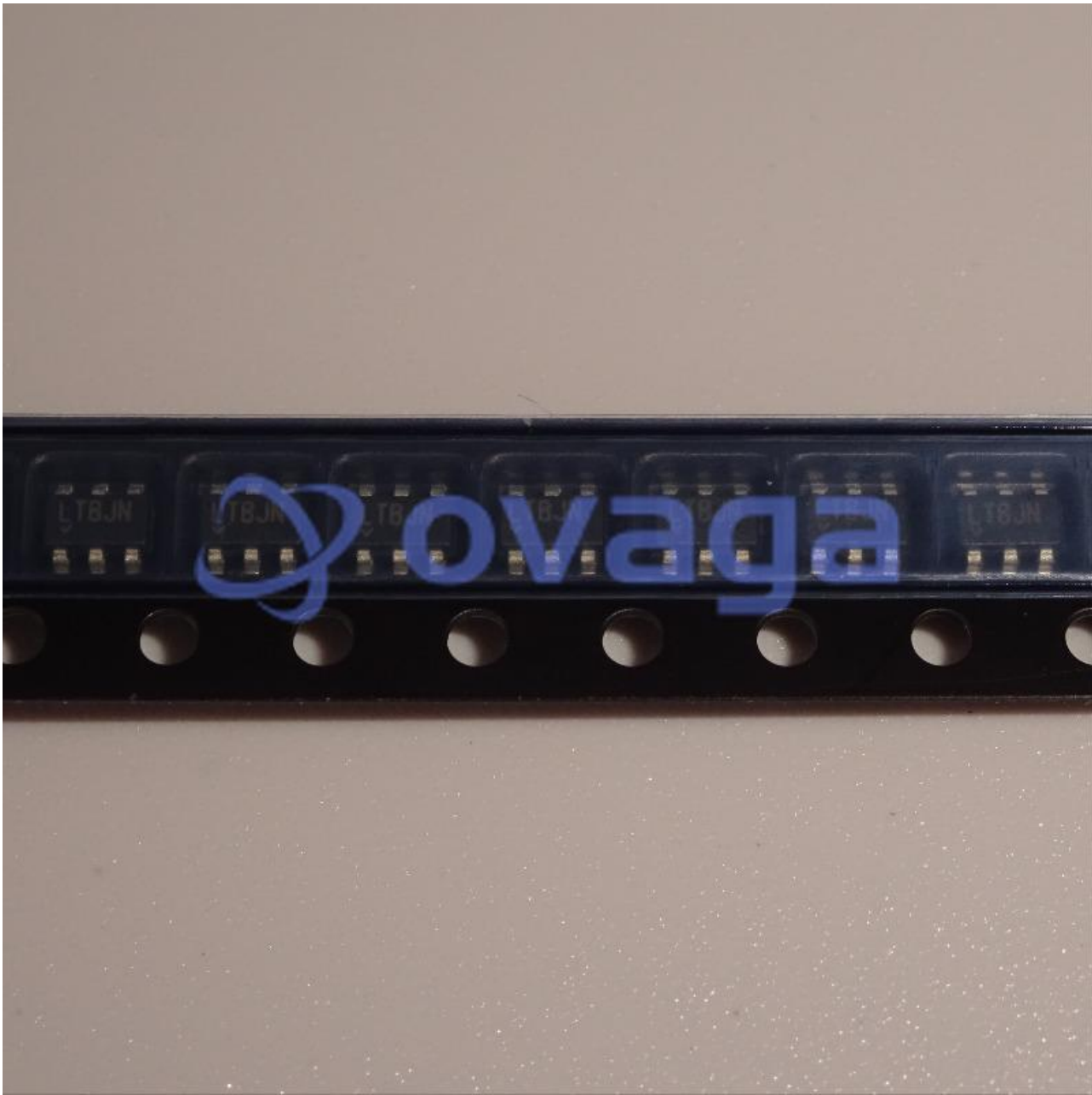
Low Cost Precision Programmable Oscillator

Rugged, Compact Micropower Replacement for Crystal and Ceramic Oscillators

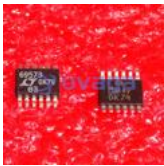
High Shock and Vibration Environments

Portable and Battery-Powered Equipment

PDAs and Cellular Phones



**Related Products**



[LTC6957HMS-3#PBF](#)

Analog Devices, Inc  
MSOP-12



[LTC1799CS5#TRMPBF](#)

Analog Devices, Inc  
TSOT23



[LTC1799CS5#TRPBF](#)

Analog Devices, Inc  
SMD5



[LTC6994IS6-2#TRMPBF](#)

Analog Devices, Inc  
SOT-6



[LTC6902IMS#PBF](#)

Analog Devices, Inc  
MSOP10



[LTC6906CS6](#)

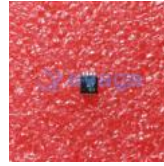
Analog Devices, Inc  
SOT-23



[LTC1799IS5](#)

Analog Devices, Inc

SOT23-5



[LTC6904CMS8](#)

Analog Devices, Inc

MSOP-8