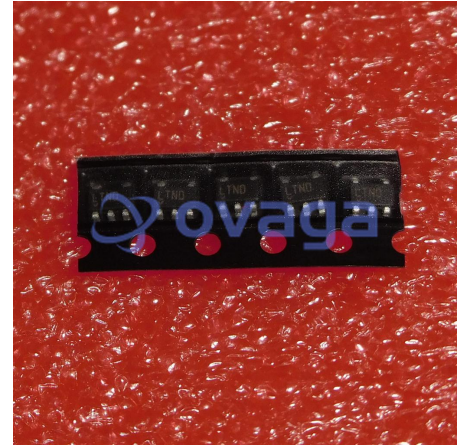


Timer, Oscillator & Pulse Generator IC, Resistor Set, 30 MHz, 2.7 V to 5.5 V, TSOT-23-5

Manufacturers	Analog Devices, Inc
Package/Case	TSOT23
Product Type	Clock & Timer ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1799CS5#TRMPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC1799 is a precision oscillator that is easy to use and occupies very little PC board space. The oscillator frequency is programmed by a single external resistor (RSET). The LTC1799 has been designed for high accuracy operation ($\leq 1.5\%$ frequency error) without the need for external trim components.

The LTC1799 operates with a single 2.7V to 5.5V power supply and provides a rail-to-rail, 50% duty cycle square wave output. The CMOS output driver ensures fast rise/fall times and rail-to-rail switching. The frequency-setting resistor can vary from 3k to 1M to select a master oscillator frequency between 100kHz and 33MHz (5V supply). The three-state DIV input determines whether the master clock is divided by 1, 10 or 100 before driving the output, providing three frequency ranges spanning 1kHz to 33MHz (5V supply). The LTC1799 features a proprietary feedback loop that linearizes the relationship between RSET and frequency, eliminating the need for tables to calculate frequency.

Features

One External Resistor Sets the Frequency

Fast Start-Up Time: <1ms

1kHz to 33MHz Frequency Range

Frequency Error $\leq 1.5\%$ 5kHz to 20MHz

Frequency Error $\leq 2\%$ 5kHz to 20MHz

0.05%/V Supply Stability

50% $\pm 1\%$ Duty Cycle 1kHz to 2MHz

50% $\pm 5\%$ Duty Cycle 2MHz to 20MHz

1mA Typical Supply Current

100 Ω CMOS Output Driver

Operates from a Single 2.7V to 5.5V Supply

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

Application

Low Cost Precision Oscillator

Charge Pump Driver

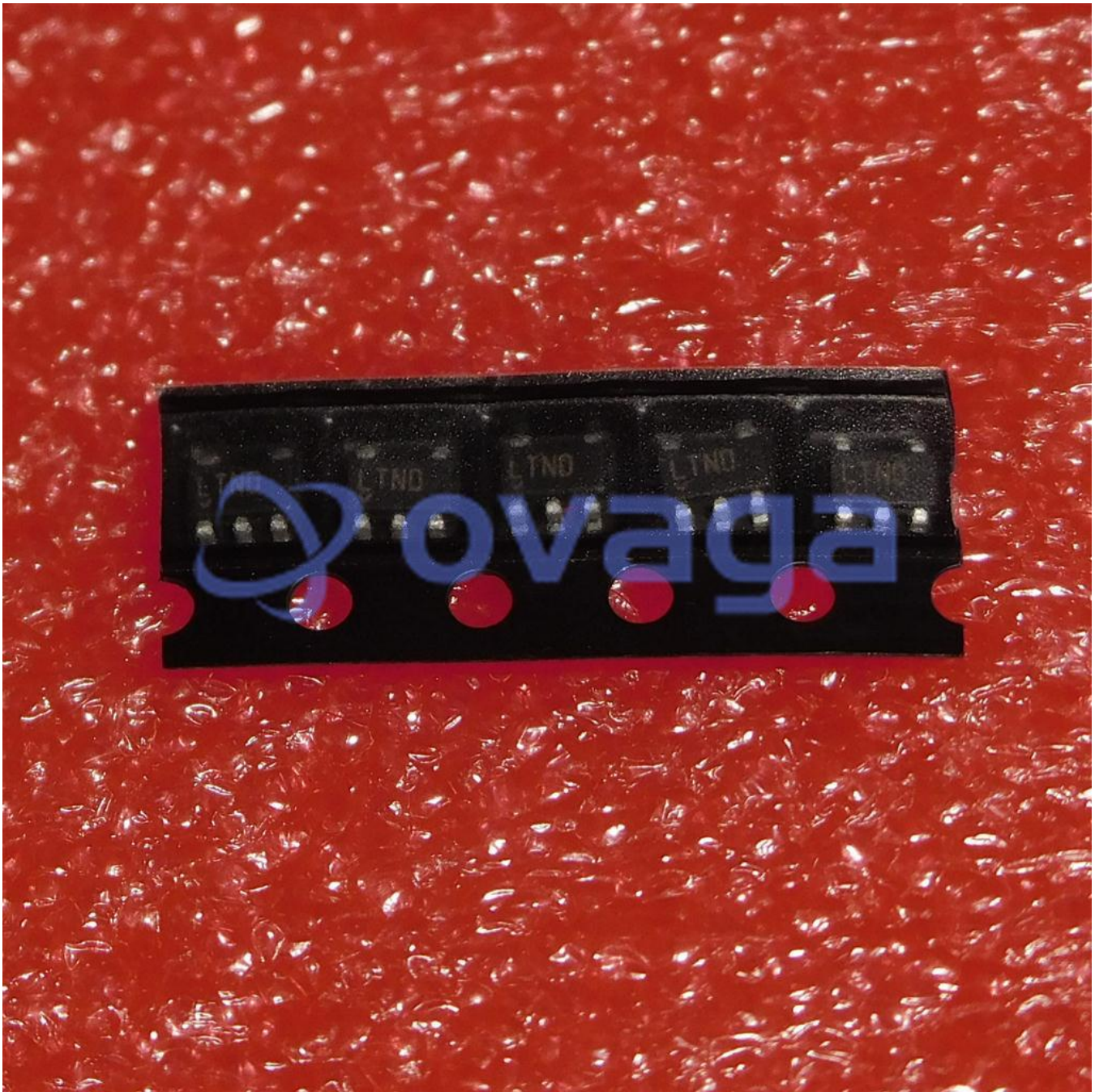
Switching Power Supply Clock Reference

Clocking Switched Capacitor Filters

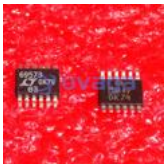
Fixed Crystal Oscillator Replacement

Ceramic Oscillator Replacement

Small Footprint Replacement for Econ Oscillators



Related Products



[LTC6957HMS-3#PBF](#)

Analog Devices, Inc
MSOP-12



[LTC6994IS6-2#TRMPBF](#)

Analog Devices, Inc
SOT-6



[LTC6902IMS#PBF](#)

Analog Devices, Inc
MSOP10



[LTC1799CS5#TRPBF](#)

Analog Devices, Inc
SMD5



[LTC6906CS6#TRMPBF](#)

Analog Devices, Inc
SOT23



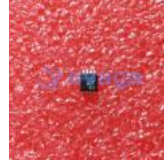
[LTC6906CS6](#)

Analog Devices, Inc
SOT-23



[LTC1799IS5](#)

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SOT23-5



[LTC6904CMS8](#)

Analog Devices, Inc
MSOP-8