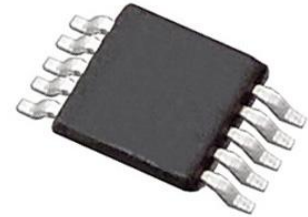


Timer, Oscillator & Pulse Generator IC, Resistor Set, 20 MHz, 2.7 V to 5.5 V, MSOP-10

Manufacturers	Analog Devices, Inc
Package/Case	MSOP-10
Product Type	Clock & Timer ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC6902CMS#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC6902 is a precision, low power and easy-to-use oscillator that provides multiphase outputs in a small package. The oscillator frequency is set by a single external resistor (RSET). The LTC6902 also provides an optional spread spectrum frequency modulation (SSFM) capability that can be activated and controlled by an additional external resistor (RMOD).

The LTC6902's master oscillator is controlled by the RSET resistor and has a range of 100kHz and 20MHz. In order to accommodate a wider output frequency range, a programmable divider (divide by 1, 10 or 100) is included. The integrated programmable multiphase circuit provides either 2-, 3- or 4-phase waveforms.

The LTC6902's SSFM capability modulates the oscillator's frequency by a pseudorandom noise (PRN) signal to spread the oscillator's energy over a wide frequency band. This spreading decreases the peak electromagnetic radiation level and improves electromagnetic compatibility (EMC) performance. The amount of frequency spreading is programmable by a single additional external resistor (RMOD) and is disabled by grounding the MOD pin.

Features

2-, 3- or 4-Phase Outputs

Optional Spread Spectrum Frequency Modulation for Improved EMC Performance

5kHz to 20MHz Frequency Range

One External Resistor Sets the Frequency

One External Resistor Sets Percent Frequency Spreading

400 μ A Typical Supply Current,>

Frequency Error < 1.5% Max, 5kHz to 10MHz>

Frequency Error < 2% Max, 5kHz to 10MHz>

Fast Start-Up Time: 50 μ s to 1.5ms

100 Ω CMOS Output Driver

Operates from a Single 2.7V to 5.5V Supply

Available in 10-Lead MS Package

Application

Switching Power Supply Clock Reference

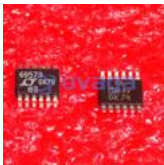
Portable and Battery-Powered Equipment

PDA's

Cell Phones

Clocking Switched Capacitor Filters

Related Products



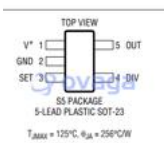
[LTC6957HMS-3#PBF](#)

Analog Devices, Inc
MSOP-12



[LTC1799CS5#TRMPBF](#)

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TSOT23



[LTC1799CS5#TRPBF](#)

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SMD5



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