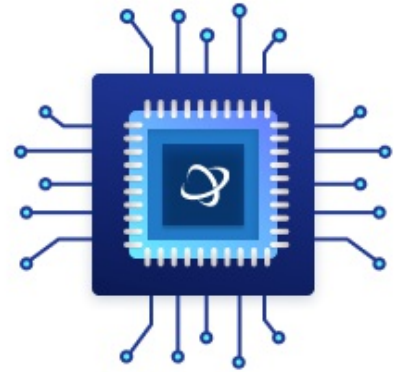


10MHz MEMS Oscillator, 6-Pin TSOT-23,  $\pm 4.5\%$  LTC6908IS6-1#TRMPBF

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	CS6
Product Type	Clock & Timer ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC6908IS6-1#TRMPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC6908 is an easy-to-use precision oscillator that provides 2-outputs, shifted by either  $180^\circ$  or  $90^\circ$ . The oscillator frequency is programmed by a single external resistor (RSET) and spread spectrum frequency modulation (SSFM) can be activated for improved electromagnetic compatibility (EMC) performance.

The LTC6908 operates with a single 2.7V to 5.5V supply and provides rail-to-rail, 50% duty cycle square wave outputs. A single resistor from 10k to 2M is used to select an oscillator frequency from 50kHz to 10MHz (5V supply). The oscillator can be easily programmed using the simple formula outlined<>

The LTC6908's SSFM capability modulates the output frequency by a pseudorandom noise (PRN) signal to decrease the peak electromagnetic radiation level and improve EMC performance. The amount of frequency spreading is fixed at  $\pm 10\%$  of the center frequency. When SSFM is enabled, the rate of modulation is selected by the user. The three possible modulation rates are  $f_{OUT}/16$ ,  $f_{OUT}/32$  and  $f_{OUT}/64$ .

## Features

LTC6908-1: Complementary Outputs (0°/180°)

LTC6908-2: Quadrature Outputs (0°/90°)

50kHz to 10MHz Frequency Range

One External Resistor Sets the Frequency

Optional Spread Spectrum Frequency Modulation for Improved EMC Performance

400µA Supply Current Typical (V+ = 5V, 50kHz)

Frequency Error ≤1.5% Max = 3V)

Fast Start-Up Time: 260µs Typical (1MHz)

Outputs Muted Until Stable

Operates from a Single 2.7V to 5.5V Supply

Available in Low Profile (1mm) ThinSOT and DFN (2mm × 3mm) Packages

## Application

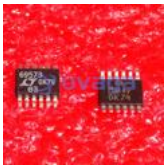
Switching Power Supply Clock Reference

Portable and Battery-Powered Equipment

Precision Programmable Oscillator

Charge Pump Driver

## Related Products



[LTC6957HMS-3#PBF](#)

Analog Devices, Inc  
MSOP-12



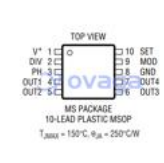
[LTC6994IS6-2#TRMPBF](#)

Analog Devices, Inc  
SOT-6



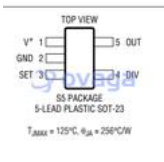
[LTC1799CS5#TRMPBF](#)

Analog Devices, Inc  
TSOT23



[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](#)

Analog Devices, Inc  
SOT23-5