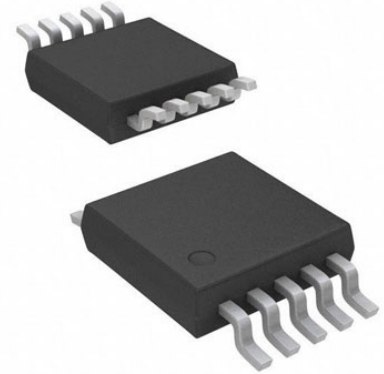


LINEAR TECHNOLOGY LTC6909HMS#PBF Timer, Oscillator & Pulse Generator IC, Multiphase, Spread Spectrum, 6.67MHz, 2.7V to 5.5V, MSOP-16



Images are for reference only

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	16-TFSOP
Product Type	Clock & Timer ICs
RoHS	Pb-free Halide free
Lifecycle	

Please submit RFQ for LTC6909HMS#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC6909 is an easy to use precision oscillator that can provide 1-, 2-, 3-, 4-, 5-, 6-, 7- or 8-phase synchronized outputs. The LTC6909 also offers spread spectrum frequency modulation (SSFM), which can be enabled to improve electromagnetic compatibility (EMC) performance.

Eight separate outputs provide up to eight rail-to-rail, 50% duty cycle clock signals. Using three logic inputs, the outputs are configured for phase separation, ranging from 45° to 120° (three to eight phases). The clock outputs can also be held low or configured for Hi-Z. A single resistor, combined with the phase configuration, sets the output frequency, based on the following formula:

The LTC6909 can be used in applications requiring only one or two output phases. Alternatively, the LTC6908 family of parts provides the same two output signals but in a smaller SOT-23 or 2mm × 3mm DFN package. The LTC6908-1 provides complimentary (180°) outputs while the LTC6908-2 provides quadrature (90°) outputs.

## Features

1-, 2-, 3-, 4-, 5-, 6-, 7- or 8-Phase Outputs

One External Resistor Sets the Output Frequency from 12.5kHz to 6.67MHz

Optional Spread Spectrum Frequency for Improved EMI Performance

Outputs Can Be Held Low or Floated (Hi-Z)

Three Spread Spectrum Modulation Rates  $f_{OUT}/16$ ,  $f_{OUT}/32$  and  $f_{OUT}/64$

400 $\mu$ A Supply Current

Operates from a Single 2.7V to 5.5V Supply

Fast Start-Up Time

First Cycle Accurate

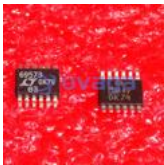
Outputs Are High Impedance Until Frequency Settles

MS16 Package

## Application

Synchronizing Multiple Switching Power Supplies

## Related Products



### [LTC6957HMS-3#PBF](#)

Analog Devices, Inc  
MSOP-12



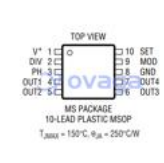
### [LTC6994IS6-2#TRMPBF](#)

Analog Devices, Inc  
SOT-6



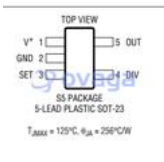
### [LTC1799CS5#TRMPBF](#)

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