

TimerBlox: Voltage-Controlled Pulse Width Modulator (PWM)

Manufacturers	Analog Devices, Inc
Package/Case	6-Lead TSOT-23
Product Type	Clock & Timer ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC6992HS6-1#TRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC6992 is a silicon oscillator with an easy-to-use analog voltage-controlled pulse width modulation (PWM) capability. The LTC6992 is part of the TimerBlox® family of versatile silicon timing devices.

A single resistor, RSET, programs the LTC6992's internal master oscillator frequency. The output frequency is determined by this master oscillator and an internal frequency divider, NDIV, programmable to eight settings from 1 to 16384.

Applying a voltage between 0V and 1V on the MOD pin sets the duty cycle.

The four versions differ in their minimum/maximum duty cycle. Note that a minimum duty cycle limit of 0% or maximum duty cycle limit of 100% allows oscillations to stop at the extreme duty cycle settings.

Features

Pulse Width Modulation (PWM) Controlled by Simple 0V to 1V Analog Input

Four Available Options Define Duty Cycle Limits

Minimum Duty Cycle at 0% or 5%

Maximum Duty Cycle at 95% or 100%

Frequency Range: 3.81Hz to 1MHz

Configured with 1 to 3 Resistors

PWM Duty Cycle Error < 3.7% Maximum

Frequency Modulation (VCO) Capability

2.25V to 5.5V Single Supply Operation

115 μ A Supply Current at 100kHz

500 μ s Start-Up Time

CMOS Output Driver Sources/Sinks 20mA

Available in Low Profile (1mm) SOT-23 (ThinSOT™) and 2mm \times 3mm DFN

AEC-Q100 Qualified for Automotive Applications

Application

PWM Servo Loops

Heater Control

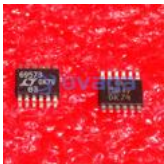
LED Dimming Control

High Vibration, High Acceleration Environments

Portable and Battery-Powered Equipment



Related Products



[LTC6957HMS-3#PBF](#)

Analog Devices, Inc
MSOP-12



[LTC1799CS5#TRMPBF](#)

Analog Devices, Inc
TSOT23



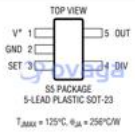
[LTC6994IS6-2#TRMPBF](#)

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[LTC6902IMS#PBF](#)

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[LTC1799CS5#TRPBF](#)

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