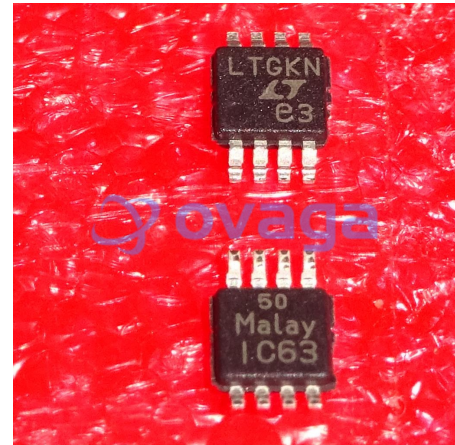


1.5ppm/ C Drift, L N, Bufed Ref

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MSOP-8
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LT6657AHMS8-2.5#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LT6657 is a precision voltage reference that combines robust operating characteristics with extremely low drift and low noise. With advanced curvature compensation, this bandgap reference achieves 1.5ppm/°C drift with predictable temperature behavior, and an initial voltage accuracy of 0.1%. It also offers 0.5ppm<sub>p-p</sub> noise and very low temperature cycling hysteresis.

The LT6657 is a low dropout reference that can be powered from as little as 50mV above the output voltage, up to 40V. The buffered output supports ±10mA of output drive with low output impedance and precise load regulation. The high sink current capability allows operation as a negative voltage reference with the same precision as a positive reference. This part is safe under reverse battery conditions, and includes current protection when the output is short-circuited and thermal shutdown for overload conditions. A shutdown is included to allow power reduction while enabling a quick turn-on.

The LT6657 is fully specified over the temperature range of -40°C to 125°C. It is available in the 8-lead MSOP package.

Applications

## Features

Low Drift

A Grade: 1.5ppm/°C Max

B Grade: 3ppm/°C Max

Low Noise:

0.5ppm

P-P

## Application

High Temperature Industrial

High Resolution Data Acquisition Systems

Instrumentation and Process Control

Automotive Control and Monitoring

Medical Equipment

Shunt and Negative Voltage References

0.8ppm

RMS

Wide Supply Range to 40V

Sources and Sinks 10mA Min

Line Regulation: 0.2ppm/V

Load Regulation: 2 $\mu$ V/mA

Reverse Supply Protection

Reverse Output Protection

Low Power Shutdown: <4 $\mu$ A Max

1.5V Min Supply for 1.25V Option

Thermal Protection

Can Operate in Shunt Mode

Configurable as a Negative Reference

Available Output Voltage Options: 1.25V, 2.5V, 3V, 4.096V, 5V

MSOP-8 Package

A Grade: 1.5ppm/ $^{\circ}$ C Max

B Grade: 3ppm/ $^{\circ}$ C Max

0.5ppm

P-P

0.8ppm

RMS



### Related Products



[LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



[LT1038CK](#)

Analog Devices, Inc  
TO-3



[LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



[LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



[LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



[LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc  
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN