

Voltage Reference, Precision, Low Drift, Low Noise, Series - Fixed, LTC6652 Series, 2.048V, MSOP-8

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MSOP8
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC6652AHMS8-2.048#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC6652 family of precision, low drift, low noise references is fully specified over the temperature range of  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ . High order curvature compensation allows these references to achieve a low drift of less than  $5\text{ppm}/^{\circ}\text{C}$  with a predictable temperature characteristic and an output voltage accuracy of  $\pm 0.05\%$ . The performance over temperature should appeal to automotive, high performance industrial and other high temperature applications.

The LTC6652 voltage references can be powered from supply voltages up to 13.2V. They boast low noise, excellent load regulation, source and sink capability and exceptional line rejection, making them a superior choice for demanding precision applications. A shutdown mode allows power consumption to be reduced when the reference is not needed. The optional output capacitor can be left off when space constraints are critical.

The LTC6652 references are offered in an 8-lead MSOP package and an 8-lead LS8 package. The LS8 is a  $5\text{mm} \times 5\text{mm}$  surface mount hermetic package that provides outstanding stability.

Applications

## Features

Low Drift:

A-Grade 5ppm/°C Max

B-Grade 10ppm/°C Max (MSOP8)

B-Grade 8ppm/°C Max (LS8)

High Accuracy:

A-Grade ±0.05% Max

B-Grade ±0.1% Max

Low Noise: 2.1ppm

P-P

100% Tested at -40°C, 25°C and 125°C

Sinks and Sources Current: ±5mA

Low Power Shutdown: <2µA Maximum

Thermal Hysteresis (LS8): 45ppm (-40°C to 125°C)

Long-Term Drift (LS8): 20ppm/√

kHr

Low Dropout: 300mV

Available Output Voltage Options: 1.25V, 2.048V, 2.5V, 3V, 3.3V, 4.096V, 5V

8-Lead MSOP and 5mm × 5mm Surface Mount Hermetic Packages

A-Grade 5ppm/°C Max

B-Grade 10ppm/°C Max (MSOP8)

B-Grade 8ppm/°C Max (LS8)

A-Grade ±0.05% Max

B-Grade ±0.1% Max

## Application

Automotive Control and Monitoring

High Temperature Industrial

High Resolution Data Acquisition Systems

Instrumentation and Process Control

Precision Regulators

Medical Equipment



### 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](#)

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