

## Ultra Precision Reference

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



Images are for reference only

Please submit RFQ for LTZ1000ACH or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTZ1000 and LTZ1000A are ultra stable temperature controllable references. They are designed to provide 7V outputs with temperature drifts of 0.05ppm/°C, about 1.2μV<sub>p-p</sub> of noise and long term stability of 2μV/√kHr.

Included on the chip is a subsurface Zener reference, a heater resistor for temperature stabilization, and a temperature sensing transistor. External circuitry is used to set operating currents and to temperature stabilize the reference. This allows maximum flexibility and best long term stability and noise.

The LTZ1000 and LTZ1000A references can provide superior performance to older devices such as the LM199, provided that the user implements the heater control and properly manages the thermal layout. To simplify thermal insulation, the LTZ1000A uses a proprietary die attach method to provide significantly higher thermal resistance than the LTZ1000.

## Applications

## Features

1.2 $\mu$ V

P-P

2 $\mu$ V/ $\sqrt{}$

kHr

Very Low Hysteresis

0.05ppm $^{\circ}$ C Drift

Temperature Stabilized

400 $^{\circ}$ C/W Thermal Resistance for LTZ1000A Reduces Insulation Requirements

Specified for -55 $^{\circ}$ C to 125 $^{\circ}$ C Temperature Range

Offered in TO-99 package

## Application

Voltmeters

Calibrators

Standard Cells

Scales

Low Noise RF Oscillators





**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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10MSOP



[LTM8045EX#PBF](#)

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BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN