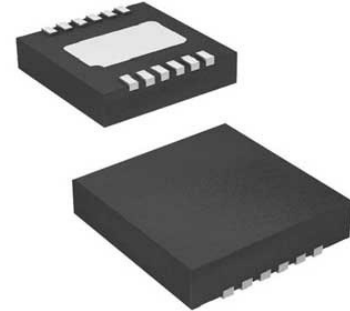


Low Phase Noise, Dual Output Buffer/Driver/Logic Converter

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	12-Lead DFN (3mm x 3mm w/ EP)
Product Type	Comparator ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC6957IDD-1#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC6957-1/LTC6957-2/LTC6957-3/LTC6957-4 is a family of very low phase noise, dual output AC signal buffer/driver/logic level translators. The input signal can be a sine wave or any logic level ( $\leq 2V_{P-P}$ ). There are four members of the family that differ in their output logic signal type as follows:

LTC6957-1: LVPECL Logic Outputs

LTC6957-2: LVDS Logic Outputs

LTC6957-3: CMOS Logic, In-Phase Outputs

LTC6957-4: CMOS Logic, Complementary Outputs

The LTC6957 will buffer and distribute any logic signal with minimal additive noise, however, the part really excels at translating sine wave signals to logic levels. The early amplifier stages have selectable lowpass filtering to minimize the noise while still amplifying the signal to increase its slew rate. This input stage filtering/noise limiting is especially helpful in delivering the lowest possible phase noise signal with slow slewing input signals such as a typical 10MHz sine wave system reference.

## Features

Low Phase Noise Buffer/Driver

Optimized Conversion of Sine Wave Signals to Logic Levels

Three Logic Output Types Available

LVPECL

LVDS

CMOS

Additive Jitter  $45\text{fsRMS}$  (LTC6957-1)

Frequency Range Up to 300MHz

3.15V to 3.45V Supply Operation

Low Skew 3ps Typical

Fully Specified from  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$

12-Lead MSOP and  $3\text{mm} \times 3\text{mm}$  DFN Packages

## Application

System Reference Frequency Distribution

High Speed ADC, DAC, DDS Clock Driver

Military and Secure Radio

Low Noise Timing Trigger

Broadband Wireless Transceiver

High Speed Data Acquisition

Medical Imaging

Test and Measurement

## Related Products



### [LTC1042CN8](#)

Analog Devices, Inc  
DIP8



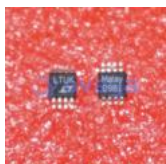
### [LT1720CS8](#)

Analog Devices, Inc  
SOP8



### [LT1719CS8](#)

Analog Devices, Inc  
SOP8



### [LT1713IMS8](#)

Analog Devices, Inc  
MSOP-8



### [LT1017IS8#PBF](#)

Analog Devices, Inc  
SOP8



### [LTC1540CMS8](#)

Analog Devices, Inc  
MSOP8



### [LT1018CS8](#)

Analog Devices, Inc  
SOP8



### [LTC1540CS8](#)

Analog Devices, Inc  
SOIC8