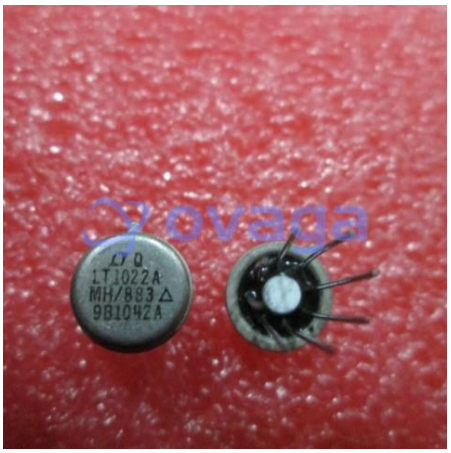
LT1022AMH/883

Data Sheet

High Speed, Precision JFET Input Operational Amplifier

Manufacturers	Analog Devices, Inc
Package/Case	CAN8
Product Type	Operational Amplifiers (Op Amps) ; Precision Op Amps (Vos ≤1mV & TCVos ≤2uV/C)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LT1022AMH/883 or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The LT1022 JFET input operational amplifier combines high speed and precision performance.

A 26V/μs slew rate and 8.5MHz gain-bandwidth product are simultaneously achieved with offset voltage of typically 80μV, 1.5μV/°C drift, bias currents of 50pA at 70°C, 500pA at 125°C. The output delivers 20mA of load current without gain degradation.

The 250μV maximum offset voltage specification represents less than 1/2 least significant bit error in a 14-bit, 10V system.

The LT1022A meets or exceeds all OP-16A and OP-16E specifications. It is faster and more accurate without stability problems at cold temperatures.

The LT1022 can be used as the output amplifier for 12-bit current output D/A converters, as shown below.

For a more accurate, lower power dissipation, but slower JFET input op amp, please refer to the LT1055 data sheet.

Features

Guaranteed Slew Rate: 23V/µs Min.

Guaranteed Offset Voltage: 250µV Max

Guaranteed Drift: 5µV/°C Max.

Guaranteed Bias Current:

70°C 180pA Max.

125°C 4nA Max.

Gain-Bandwidth Product: 8.5MHz Typ

Settling Time to 0.05% (10V Step): 0.9µs Typ

Application

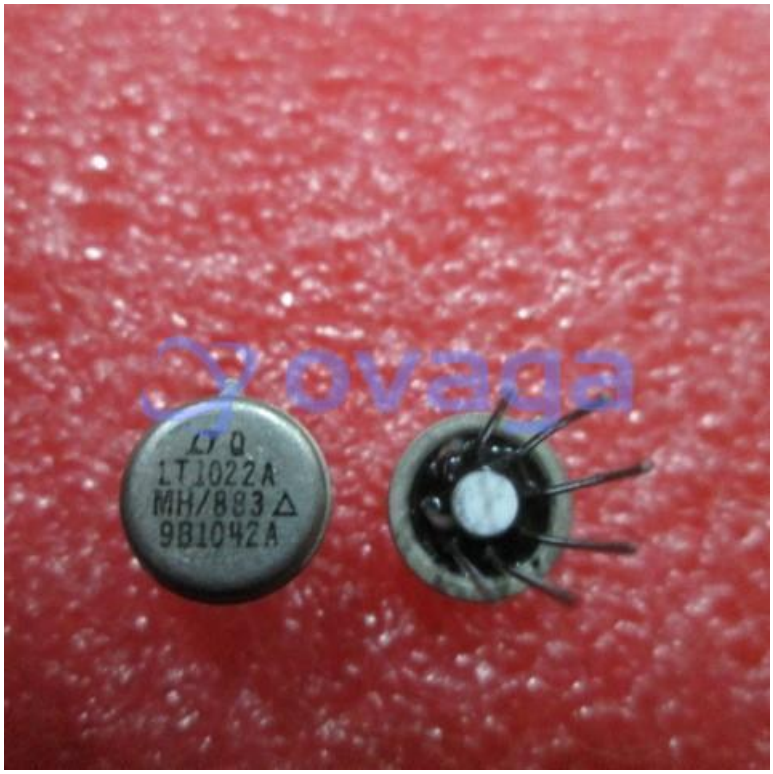
Fast D/A Output Amplifiers (12, 14, 16 Bits)

High Speed Instrumentation

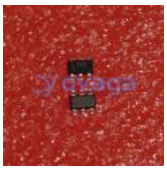
Fast, Precision Sample and Hold

Voltage-to-Frequency Converters

Logarithmic Amplifiers



Related Products



[LT1616ES6](#)

Analog Devices, Inc

SOT-23-6

[LT1086CT-5](#)

Analog Devices, Inc

TO-220

[LT3469ETS8](#)

Analog Devices, Inc

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[LT1210CT7](#)

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SOT-23-5