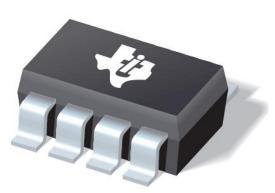




OPA2378 Precision Operational Amplifier

General Description:

The OPA378 and OPA2378 represent a new generation of Zerø-Drift, microPOWER operational amplifiers that use a proprietary auto-calibration technique to provide minimal input offset voltage (20μV) and offset voltage drift (0.1μV/°C). The combination of low input voltage noise, high gain bandwidth (900kHz), and low power (150μA max) enable these devices to achieve optimum performance for low-power precision applications. In addition, the excellent PSRR performance, coupled with a wide input supply range of 2.2V to 5.5V and



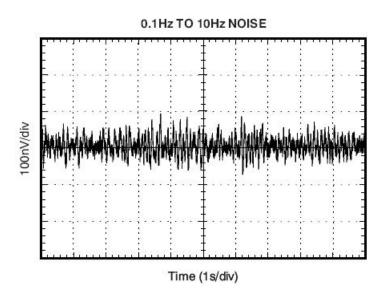
rail-to-rail input and output, makes it an outstanding choice for single-supply applications that run directly from batteries without regulation.

The OPA378 (single version) is available in both a microSIZE SC70-5 and a SOT23-5 package.

Key Features:

- LOW NOISE
 - 0.4µVPP, 0.1Hz to 10Hz
 - 20nV/√Hz at 1kHz
- ZERØ-DRIFT SERIES
 - LOW OFFSET VOLTAGE: 20µV
 - LOW OFFSET DRIFT: 0.1µV/°C
- QUIESCENT CURRENT: 125µA
- GAIN BANDWIDTH: 900kHz
- RAIL-TO-RAIL INPUT/OUTPUT
- EMI FILTERING
- SUPPLY VOLTAGE: 2.2V to 5.5V
- microSIZE PACKAGES: SC70 and

SOT23



Applications:

- PORTABLE MEDICAL DEVICES
 - GLUCOSE METERS



- OXYGEN METERING
- HEART RATE MONITORS
- WEIGH SCALES
- BATTERY-POWERED INSTRUMENTS
- THERMOPILE MODULES

Related Products Information:

Mfr Part #	Farnell #	Newark #	Description
OPA2378AIDCNT	1782833	51R6140	Precision Operational Amplifier

