

Low Power Dissipation, Low Noise, CMOS, Rail-to-Rail Input and Output Operational Amplifier

PRODUCT DESCRIPTION

The MS6001/2/4 is featured with ultra-low power dissipation, rail-to-rail input and output, low input voltage and low current noise. The specific characteristics could be expressed as follows: the MS6001/2/4 can operate in single power supply from 1.8V to 5V or dual power supply; Low power dissipation and low noise characteristics make the MS6001/2/4 applied to mobile devices. And the rail-to-rail input and output can be applied to the buffer of CMOS, ADCs, DACs and ASICs or the system with low power dissipation and wide output swing.

FEATURES

- Low Offset Voltage: 3mV (Max)
- Low Input Bias Current: 10pA (Max@25°C)
- Single Power Supply: 1.8V ~ 5V
- Low Noise: $31\text{nV}/\sqrt{\text{Hz}}$ @10kHz
- Micro Power Dissipation (1.8V): 110 μ A(Single Amplifier)
- No Phase Reversal
- Stable Unit Gain

APPLICATIONS

- Battery-powered Device
- Multi-order Filter
- ADC Pre-driver
- DAC Driver/Level Shift
- Low Power Dissipation, ASIC Input and Output Amplifier

PRODUCT SPECIFICATION

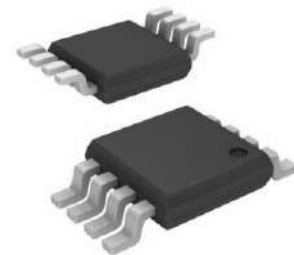
Part Number	Package	Marking
MS6001S	SOT23-5	6001S
MS6002	SOP8	MS6002
MS6002M	MSOP8	MS6002M
MS6004	TSSOP14	MS6004
MS6004S	SOP14	MS6004S



SOT23-5



SOP8



MSOP8



TSSOP14



SOP14