

Dual Operational Amplifier

GENERAL DESCRIPTION

The LM358 consists of two independent, high-gain frequency-compensated operational amplifiers designed to operate from a single supply or dual supplies over a wide range of voltages.

The LM358 is available in Green SOP-8L and MSOP-8L packages. It is specified over the 0°C to +70°C temperature range.

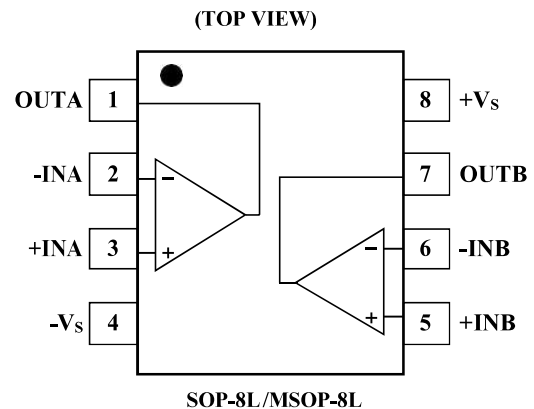
APPLICATIONS

- Blu-ray Players and Home Theaters
- Chemical and Gas Sensors
- DVD Recorders and Players
- Digital Multimeter: Bench and Systems
- Digital Multimeter: Handhelds
- Field Transmitter: Temperature Sensors
- Motor Control: AC Induction, Brushed DC, Brushless DC, High-Voltage, Low-Voltage, PermanentMagnet, and Stepper Motors
- TV: LCD and Digital
- Temperature Sensors or Controllers Using Modbus Weigh Scales

FEATURES

- Wide Supply Ranges Single Supply: 3V to 36V
Dual Supplies: $\pm 1.5V$ to $\pm 16V$
- Low Quiescent Current: 440 μA (TYP)
- Gain-Bandwidth Product: 1.1MHz
- Input Common Mode Voltage Range Includes Ground, Allowing Direct Sensing Near Ground
- Low Input Offset Voltage: 5.8mV (MAX)
- Low Input Offset Current: 20pA (TYP)
- Low Input Bias Current: 10pA (TYP)
- Differential Input Voltage Range Equal to Maximum- Rated Supply Voltage: 32V
- Open-Loop Differential Voltage Gain: 111dB (TYP)
- Internal Frequency Compensation
- 0°C to +70°C Operating Temperature Range
- Available in Green SOP-8L and MSOP-8L Packages

PIN CONFIGURATION



PACKAGE/ORDERING INFORMATION

MODEL	PACKAGE DESCRIPTION	SPECIFIED TEMPERATURE RANGE	ORDERING NUMBER	PACKAGE MARKING	PACKING OPTION
LM358	SOP-8L	0°C to +70°C	LM358S08	LM358 *****	Tape and Reel, 4000
	MSOP-8L	0°C to +70°C	LM358MS08	LM358S *****	Tape and Reel, 4000