



### Low Power Quad Operational Amplifier

DATA BRIEF

■ Wide gain bandwidth: 1.3MHz

Input common-mode voltage range includes ground

■ Large voltage gain: 100dB

■ Very low supply current/ampli: 375µA

Low input bias current: 20nALow input offset current:s 2nA

■ Wide power supply range: Single supply: +3V to +30V Dual supplies: ±1.5V to ±15V

■ Internal ESD protection: 250V HBM pin to pin

mode, 150V MM

#### **Description**

This circuit consists of four independent, high-gain, internally frequency-compensated amplifiers, which were designed specifically for automotive and industrial control system. It operates from a single power cupoly over a wide range of voltages. The low-pover supply drain is independent of the magnifuce of the power supply voltage.

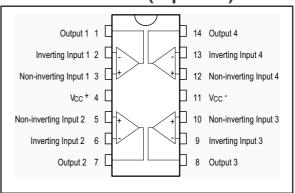
Application are as include transducer amplifiers, DC gain books and all the conventional op-amp circuits which now can be more easily implemented in single power supply systems. For example, these circuits can be directly supplied off the standard +5V used in logic systems and will easily provide the required interface electronics without requiring any additional power supply.

In the linear mode, the input common-mode voltage range includes ground and the output



voltage can also swing to ground, even though it is operated from only a single power supply voltage.

## Pin Connection (top view)



#### **Order Codes**

Part Number	Temperature Range	Package	Packaging	Marking
JLM2902H		Wafer		
LM2902HD/HDT	-40°C, +150°C	SO-14	Tube or Tape & Reel	2902H
LM2902HYD/HYDT		SO-14 (automotive grade level)	Tube or Tape & Reel	2902HY

Rev 2 1/2 Revision History LM2902H

# 1 Revision History

Date	Revision	Changes	
March 2005	1	First release of databrief.	
July 2005	2	PPAP references inserted in the datasheet see <i>Table : Order Codes of page 1</i> .	

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