DUAL OPERATIONAL AMPLIFIER

1458
276-038

GENERAL DESCRIPTION

The 1458 is a general purpose dual operational amplifier. The two amplifiers share a common bias network and power supply leads. Otherwise, their operation is completely independent. Features include:

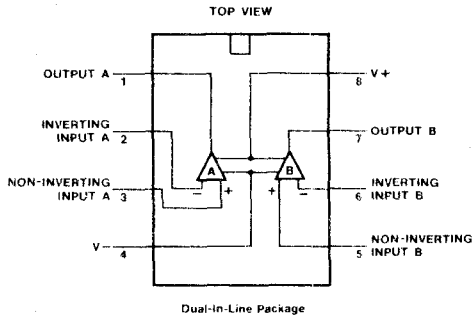
FEATURES

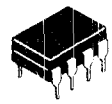
- No frequency compensation required.
- Short-circuit protection
- Wide common-mode and differential voltage ranges
- Low-power consumption
- No latch up when input common mode range is exceeded

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±16V
Power Dissipation	400 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short-Circuit Duration	Indefinite
Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-65°C to 150°C
Lead Temperature (Soldering, 10 sec)	300°C

PIN CONNECTION





QUAD OPERATIONAL NORTON AMPLIFIER

3900
276-1713

GENERAL DESCRIPTION

The 3900 series consists of four independent, dual input, internally compensated amplifiers which were designed specifically to operate off of a single power supply voltage and to provide a large output voltage swing. These amplifiers make use of a current mirror to achieve the non-inverting input function. Application areas include: ac amplifiers, RC active filters, low frequency triangle, squarewave and pulse waveform generation circuits, tachometers and low speed, high voltage digital logic gates.

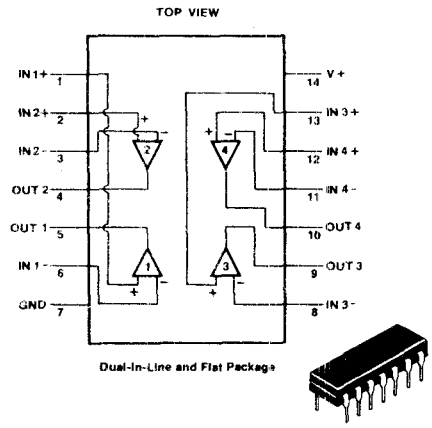
FEATURES

- Wide single supply voltage 4 V_{DC} to 36 V_{DC} range or dual supplies ±2 V_{DC} to ±18 V_{DC}
- Supply current drain independent of supply voltage
- Low input biasing current 30 nA
- High open-loop gain 70 dB
- Wide bandwidth 2.5 MHz (Unity Gain)
- Large output voltage swing (V^+ -1) V_{p-p}
- Internally frequency compensated for unity gain
- Output short-circuit protection

ABSOLUTE MAXIMUM RATINGS

Supply Voltage (Wide Range, Single Supply)	32 V_{DC}
Supply Voltage (Wide Range, Dual Supply)	±16 V_{DC}
Power Dissipation (T_A = 25°C)	
Flat Pack	570 mW
Input Currents, I_{IN}^+ or I_{IN}^-	20 mA_{DC}
Output Short-Circuit Duration—One Amplifier	Continuous
T_A = 25°C (See Application Hints)	
Operating Temperature Range	0°C to +70°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION



TYPICAL APPLICATIONS

Basic Instrumentation Amplifier