

LM380N Audio Amplifier

REFERENCE TABLE

Code	Stock No.
LM380N	31137H

GENERAL DESCRIPTION

The LM380 is a two watt audio amplifier intended for low parts count consumer circuits employing a single supply voltage. The output has both short circuit current limiting and thermal overload current limiting to ensure safe operation.

FEATURES

- Wide supply voltage range.
- Low quiescent power drain.
- Voltage gain fixed at 50.
- High peak current capability.
- Input referenced to GND (V^-).
- High input impedance.
- Low distortion.

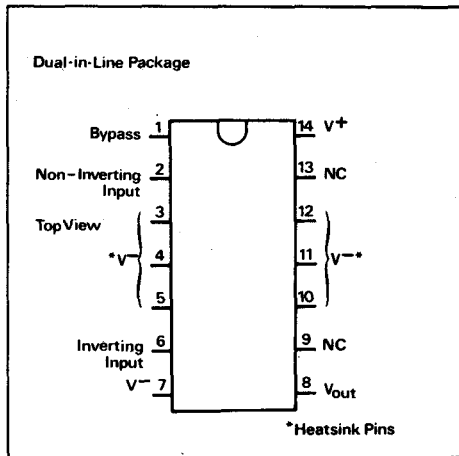
Quiescent output voltage is at one-half of the supply voltage.

Standard dual-in-line package.

ABSOLUTE MAXIMUM RATINGS

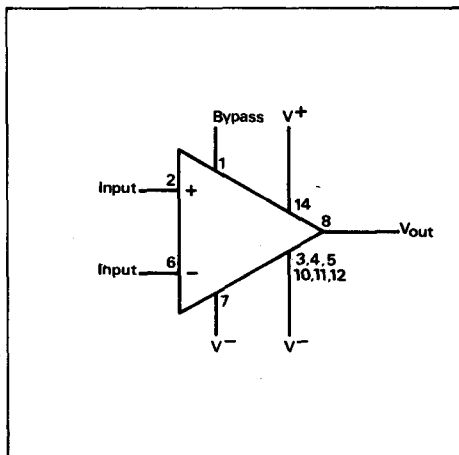
Supply voltage	22V
Peak current	1.3 amp.
Power dissipation (Note 3)	2 watts
Input voltage	$\pm 0.5V$
Storage temperature	$-65^{\circ}C$ to $+150^{\circ}C$
Operating temperature	$0^{\circ}C$ to $70^{\circ}C$
Lead temperature (soldering, 10 sec)	$300^{\circ}C$

CONNECTION DIAGRAM



See outline drawing No. 109 for dimensions.

BLOCK DIAGRAM



PLEASE QUOTE STOCK NO. AND MANUFACTURER'S CODE WHEN ORDERING