

LM382N Dual Preamplifier

REFERENCE TABLE

Code	Stock No.
LM382N	33154G

GENERAL DESCRIPTION

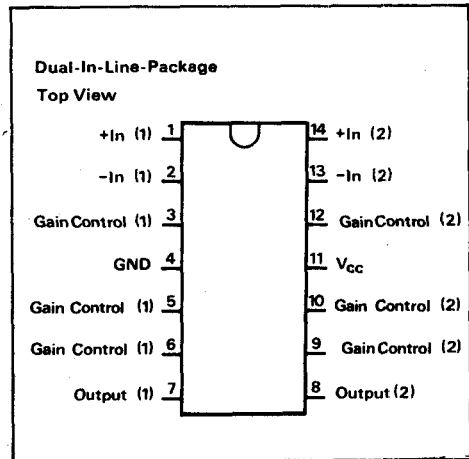
The LM382 is a dual preamplifier for the amplification of low level signals in applications requiring optimum noise performance. Each of the two amplifiers is completely independent, with individual internal power supply decoupler-regulator, providing 120dB supply rejection and 60dB channel separation. Other outstanding features include high gain (100dB), large output voltage swing ($V_{CC} - 2V$) p-p, and wide power bandwidth (75 kHz, 20V_{p-p}). The LM382 operates from a single supply across the wide range of 9 to 40V.

A resistor matrix is provided on the chip to allow the user to select a variety of closed loop gain options and frequency response characteristics such as flat-band, NAB or RIAA equalization. The circuit is supplied in the 14 lead dual-in-line package.

FEATURES

- Low noise—0.8 μV total equivalent input noise.
- High gain—100dB open loop.
- Single supply operation.
- Wide supply range 9 to 40V.
- Power supply rejection—120dB.
- Large output voltage swing.
- Wide bandwidth—15 MHz unity gain.
- Power bandwidth—75 kHz, 20 V_{p-p}.
- Internally compensated.
- Short circuit protected.

CONNECTION DIAGRAM



See outline drawing No. 109 for dimensions.

ABSOLUTE MAXIMUM RATINGS

Supply voltage	+40V
Power dissipation	800mW
Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 sec)	300°C

MANUFACTURER'S CURRENT LIST PRICES ARE ALWAYS CHARGED