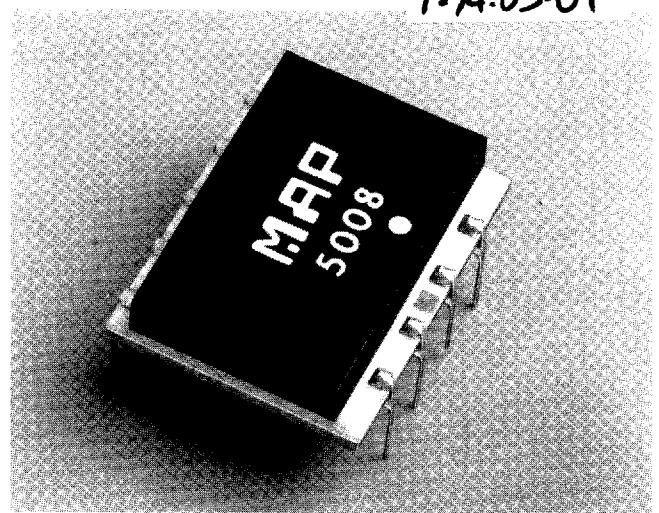


APPLICATIONS

- Balanced line inputs
- Differential line amplifiers
- Balanced combining amps.
- Bridging line amplifiers
- Console line inputs
- Stereo line amplifiers

FEATURES

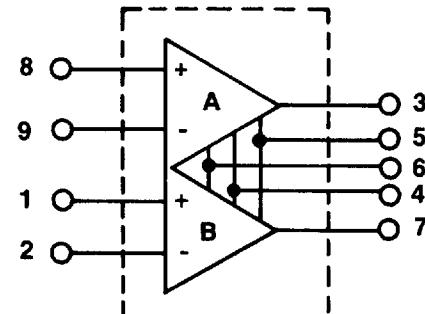
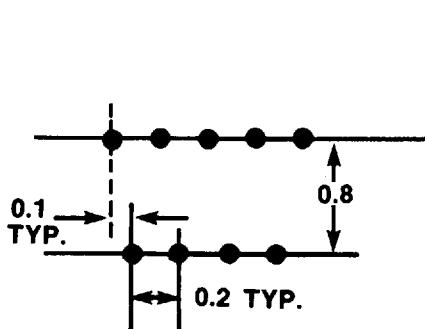
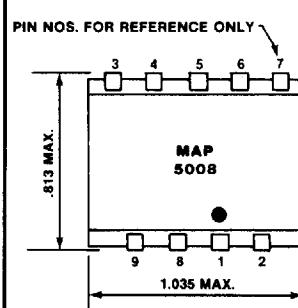
- Dual channel amplification
- Up to 40 dB gain
- -80 dB crosstalk max. at 20 kHz
- Equivalent input noise -112 dBm
- High output (20 dBm) into 600 ohms
- Low distortion (.05 percent)
- High input impedance
- Low output impedance



The MAP Model 5008 is a dual balanced transformerless amplifier packaged in the familiar MAP hybrid assembly. The Model 5008 may be used in a wide variety of applications by simple addition of external resistors or interconnections. It is suitable for use in audio frequency circuits with the most stringent requirements. Some typical applications are shown on the reverse side.

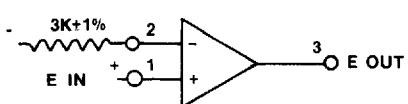
PERFORMANCE SPECIFICATIONS

Maximum Gain 40 dB
 Full Power Out +20 dBm
 Frequency Response 20-20,000 Hz \pm 0.25 dB
 Maximum Distortion 0.05% max. 20-20,000 Hz
 Full Power Bandwidth 140 kHz
 Equivalent Input Noise -112 dBm
 Crosstalk 80 dB @ 20 kHz
 Input Impedance 17K, Resistive
 Vos 3 millivolt, max.
 Slew Rate 9V/usec.
 Common Mode Voltage \pm 13 VDC, maximum
 Supply Voltage Range \pm 12 - \pm 15 VDC
 Maximum Current \pm 16 ma

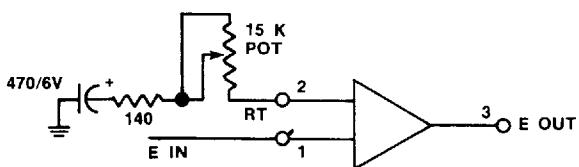
**SCHEMATIC****PIN SPACING**

PIN. NO.	FUNCTION
1	+ IN CH. B
2	- IN CH. B
3	OUT CH. A
4	V-
5	COM.
6	V+
7	OUT CH. B
8	+ IN CH. A
9	- IN CH. A
MNTG HOLES RECOMMENDED	.032 \pm .003 DIA

PIN CALLOUT**MODULAR AUDIO PRODUCTS**MODULAR DEVICES INC • BROOKHAVEN R&D PLAZA • ONE RONED ROAD • SHIRLEY, NEW YORK 11967
CALL 1-800-333-7697 • 516-345-3100 • FAX 516-345-3106

TYPICAL AMPLIFIER APPLICATIONS & SPECIFICATIONS**DIFFERENTIAL AMPLIFIER**

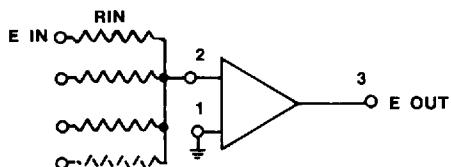
13 dB gain
6K diff. input impedance

**SINGLE ENDED, NON INVERTING AMPLIFIER**

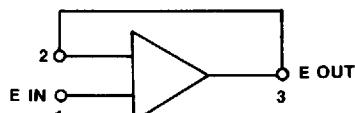
Adjustable gain = 0 dB to 40 dB

17 K input impedance

$$\text{Gain} = 20 \log_{10} \left(\frac{14K}{R_t + 140} \right) (E \text{ IN})$$

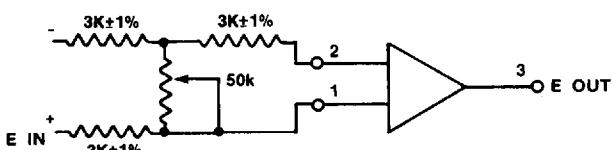
**COMBINING (SUMMING) AMPLIFIER**

Gain and input Z Gain = $20 \log_{10} \left(\frac{14K}{R_{IN}} \right)$
Determined by R_{IN}

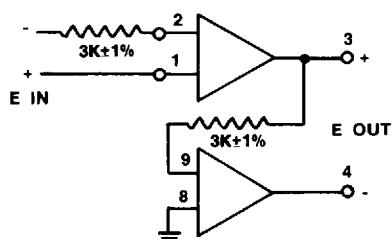
**VOLTAGE FOLLOWER (BUFFER)**

E IN = E OUT
High input Z : 17K
Low output Z : 1Ω, max.

} IDEAL FOR DRIVING
SEVERAL HI-Z INPUTS
FROM LOW Z SOURCE

**DIFFERENTIAL AMPLIFIER**

With gain control
Max. gain = 13dB
Input Z = 6KΩ, differential

**DIFFERENTIAL AMPLIFIER**

Diff. IN - Diff. OUT
13 dB gain
+26 dB max. output