

LA4510

monolithic linear IC

CIRCUIT DRAWING
No.2085**LOW-VOLTAGE MONAURAL POWER AMP.**

3017B

Applications

- Ideally suited for use in 3V micro cassette, mini cassette, headphone stereo applications.

Features

- Operating supply voltage range: 2 to 5V
- Low current dissipation (7mA typ./ $V_{CC}=3V$)
- Output power:
 - 240mW typ. ($V_{CC}=3V$, $R_L=4\Omega$, THD=10%)
 - 40mW typ. ($V_{CC}=3V$, $R_L=32\Omega$, THD=10%)
- Variable starting time and low pop noise at the time of power switch ON because of the use of built-in muting circuit.
- Soft tone even at output saturation.

LA4520

monolithic linear IC

CIRCUIT DRAWING
No.2086**DUAL-CHANNEL PREAMP. + POWER AMP. FOR HEADPHONE DRIVER**

3021B

Use

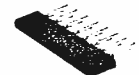
- Headphone cassette player for playback only

Features

- Dual IC having preamp. and power amp. in a single package.
- Small pop noise at the time of power supply ON/OFF.
- Soft tone at the time of output saturation.
- Minimum number of external parts required.
- Both preamp. and power amp. are good in ripple rejection.
- Wide supply voltage range: $V_{CC} = 2.7V$ min.
- Especially suited for use in sets for playback only which operate from $V_{CC} = 4.5V$, $6.0V$.
- Voltage gain of power amp. is fixed at $V_G = 45dB$, but it can be made lower by connecting external resistor.

LA4530M, 4530S

monolithic linear IC

CIRCUIT DRAWING
No.2087**POWER AMP FOR 3.0/4.5V HEADPHONE STEREO**

3036B(LA4530M) 3020A(LA4530S)

Features

- Wide operating voltage range: 1.8 to 5.0V
- Low current dissipation: 10mA typ/ $V_{CC}=3V$
 - 36mW typ x 2 ($V_{CC}=3V$, $R_L=32\Omega$, THD=10%)
 - 80mW typ x 2 ($V_{CC}=4.5V$, $R_L=32\Omega$, THD=10%)
- Low distortion: 0.06% typ ($V_{CC}=3V$, $R_L=32\Omega$, $P_o=5mW$)
- Low noise: 0.07mV typ ($V_{CC}=3V$, $R_L=32\Omega$, $R_g=0$, BPF=20Hz to 20kHz)
- Good ripple rejection: 60dB typ ($V_{CC}=3V$, $R_L=32\Omega$, $R_g=0$, $f_R=100Hz$, $V_R=200mV$)
- Small pop noise at the time of power ON/OFF due to the on-chip muting circuit
- Minimum number of external parts required: Bootstrap capacitorless, input capacitorless
- External phase compensation pin available for changing the frequency response