



<b>LA4510</b>	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<sub>CC</sub>=3V)
- Output power:  
240mW typ. (V<sub>CC</sub>=3V, R<sub>L</sub>=4Ω, THD=10%)  
40mW typ. (V<sub>CC</sub>=3V, R<sub>L</sub>=32Ω, 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.


<b>LA4520</b>	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<sub>CC</sub> = 2.7V min.
- Especially suited for use in sets for playback only which operate from V<sub>CC</sub> = 4.5V, 6.0V.
- Voltage gain of power amp. is fixed at VG = 45dB, but it can be made lower by connecting external resistor.

<b>LA4530M,4530S</b>	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<sub>CC</sub>=3V  
36mW typ x 2 (V<sub>CC</sub>=3V, R<sub>L</sub>=32Ω, THD=10%)  
80mW typ x 2 (V<sub>CC</sub>=4.5V, R<sub>L</sub>=32Ω, THD=10%)
- Low distortion: 0.06% typ (V<sub>CC</sub>=3V, R<sub>L</sub>=32Ω, P<sub>o</sub>=5mW)
- Low noise: 0.07mV typ (V<sub>CC</sub>=3V, R<sub>L</sub>=32Ω, R<sub>g</sub>=0, BPF=20Hz to 20kHz)
- Good ripple rejection: 60dB typ (V<sub>CC</sub>=3V, R<sub>L</sub>=32Ω, R<sub>g</sub>=0, f<sub>R</sub>=100Hz, V<sub>R</sub>=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