

LA4540	monolithic linear IC	CIRCUIT DRAWING No.2088
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BRIDGE OCL POWER AMP

Use

- Radio cassette
- Portable component
- Pre-taped musical accompaniment equipment

Functions

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| <ul style="list-style-type: none"> ■ On-chip GND protector (with speaker protect function) ■ On-chip overvoltage protector (with speaker protect function) | <ul style="list-style-type: none"> ■ On-chip load short protector ■ On-chip thermal shutdown circuit ■ On-chip DC audio muting circuit (attack time 1msec., no external parts required) |
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Features

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| <ul style="list-style-type: none"> ■ High output (18W/15V, 20W/17V typ.) ■ Good ripple rejection (-60dB) ■ f_H adjust pin ■ Soft tone at the output saturation mode | <ul style="list-style-type: none"> ■ Small pop noise at the time of power ON/OFF ■ Wide operating voltage range (7V to 24V) ■ Bridge OCL amp requiring no output capacitor |
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LA4550, 4555	monolithic linear IC	CIRCUIT DRAWING No.2089
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2-CHANNEL POWER AMP FOR TAPE RECORDERS



3022A

Features and Functions

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|---|----------|---------------|---------------|--------|----------|---------------|--|
| <ul style="list-style-type: none"> ■ Built-in 2 channels enabling use in stereo and bridge amplifier applications ■ High output <ul style="list-style-type: none"> LA4550 $P_O=0.8W$ ($V_{CC}=6V, R_L=4ohm$) LA4555 $P_O=2.4W$ ($V_{CC}=9V, R_L=4ohm$) ■ Voltage gain can be varied with external feedback resistor. (max 51dB/1kHz) ■ Low quiescent current <table style="width: 100%; border: none; margin-top: 5px;"> <tr> <td style="width: 30%;">LA4550</td> <td style="width: 30%;">15mA typ</td> <td style="width: 40%;">$V_{CC} = 6V$</td> </tr> <tr> <td>LA4555</td> <td>17mA typ</td> <td>$V_{CC} = 9V$</td> </tr> </table> | LA4550 | 15mA typ | $V_{CC} = 6V$ | LA4555 | 17mA typ | $V_{CC} = 9V$ | <ul style="list-style-type: none"> ■ Small pop noise at the time of power supply ON/OFF due to built-in muting circuit ■ Good ripple rejection (49dB typ) due to built-in ripple filter ■ Wide operating voltage range (3.5V to 12V) ■ Fewer external parts and DIP12F package which facilitates heat radiation design and makes sets smaller ■ Built-in audio muting circuit |
| LA4550 | 15mA typ | $V_{CC} = 6V$ | | | | | |
| LA4555 | 17mA typ | $V_{CC} = 9V$ | | | | | |

LA4560M	monolithic linear IC	CIRCUIT DRAWING No.2090
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2-CHANNEL PREAMP + POWER AMP FOR HEADPHONE USE



3045A

Features

- 2-channel IC containing preamplifiers and power amplifiers in a single package
- Applicable to 4.5V-operated or 6.0V-operated sets
- An on-chip FORWARD/REVERSE changeover circuit permits FORWARD/REVERSE changeover with a 1-pole switch.
- An external capacitor can be used to control the time required for FORWARD/REVERSE changeover.
- Good reduced voltage characteristic $V_{CC} = 2.5V$ (min)