

**LA4625****Two-Channel 13.5 W BTL Audio Power Amplifier****Overview**

The LA4625 is a 2-channel general-purpose BTL audio power amplifier provided in a miniature package. It was designed for the best possible audio quality and features an extended low band roll-off frequency provided by a newly-developed NF circuit that does not require an external capacitor. Furthermore, crosstalk, which can cause muddiness in the audio output, has been significantly reduced by both circuit and wiring pattern improvements. Thus this amplifier can provide powerful lows and clear highs.

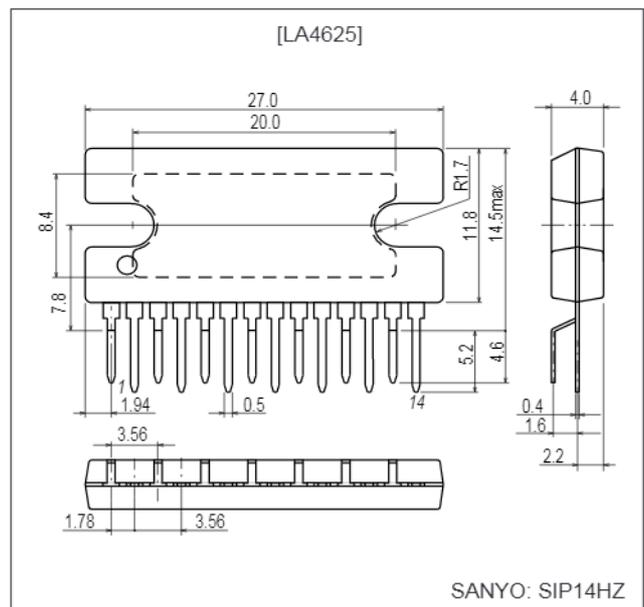
Note that this device is pin compatible with the 20 W · 2-channel LA4628, and allows end products differentiated by their power rating to share the same printed circuit board.

**Features**

- Total output: 13.5 W + 13.5 W (at  $V_{CC} = 12$  V,  $R_L = 4 \Omega$ , THD = 10%)
- PMPO reference data: 115 W · 2 ( $V_{CC} = 20$  V,  $R_L = 4 \Omega$ )
- High-fidelity design ( $f_L < 10$  Hz,  $f_H = 130$  kHz)
- Extremely low impulse noise levels
- An arbitrary amplifier startup time can be set up with external components.
- Full complement of built-in protection circuits (includes circuits that protect against shorting to  $V_{CC}$ , shorting to ground, load shorting, overvoltages and excessive temperatures)

**Package Dimensions**

unit: mm

**3113A-SIP14HZ**

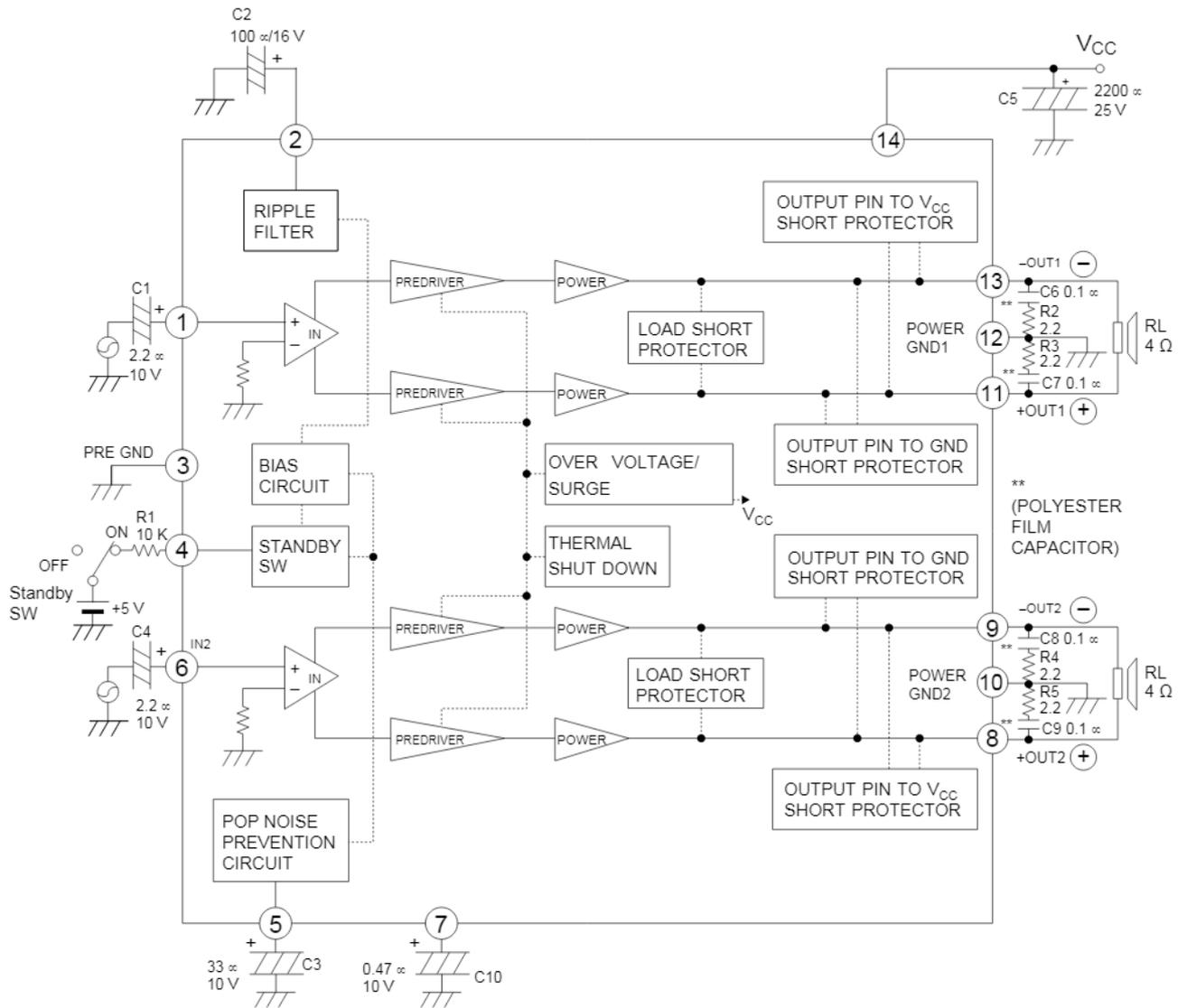
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Equivalent Circuit Block Diagram



C3  
Sets the amplifier starting time  
(Approximately 0.6 seconds when 33  $\mu$ F)

C10  
Impulse noise reduction  
(Note: The device's ability to withstand shorting to  $V_{CC}$  or shorting to ground when  $V_{CC}$  is around 16 V may be reduced as the value of this capacitor is increased. We recommend 0.47  $\mu$ F.)