16 Bit Digital to Analog Converter   PT8211

DESCRIPTION

PT8211 is a dual channel, 16 bit Digital-to-Analog Converter IC utilizing CMOS technology specially designed for the digital audio applications. The internal conversion architecture is based on a R-2R resister ladder network, internal circuit is well matched and a 16 bit dynamic range is achieved even in whole supply voltage range. PT8211 also enhanced the performance of timing responsibility in digital serial bus, in a company with the fast switching R-2R network that make 8X oversampling audio signal is also supported.

PT8211 can be supported wide range of sample frequency, it is compatible with TDA1311 by functionally. It's digital input timing format is Least Significant Bit Justified(LSBJ), or so called Japanese input format. Digital code format is two's complement and MSB first . PT8211 is available in 8-pin SO or DIP package.

FEATURES

- CMOS technology
- Support 3.3V bus input level
- Low power consumption
- Two audio channel output in the same chip
- 16 bit dynamic range
- Low total harmonic distortion
- No phase shift between both output channel
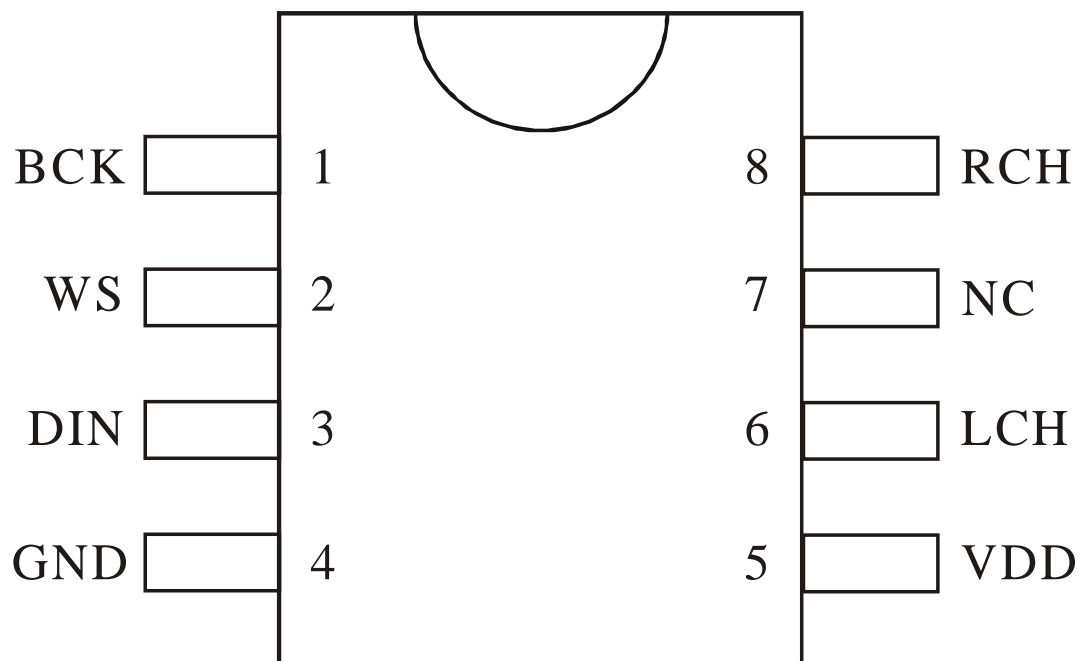- Available in 8 pins, SO or DIP package

APPLICATIONS

- Digital Audio Equipment
- CD ROM/VCD
- Multimedia Sound Card
- MPEG Decoder Card

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Princeton Technology Corp.

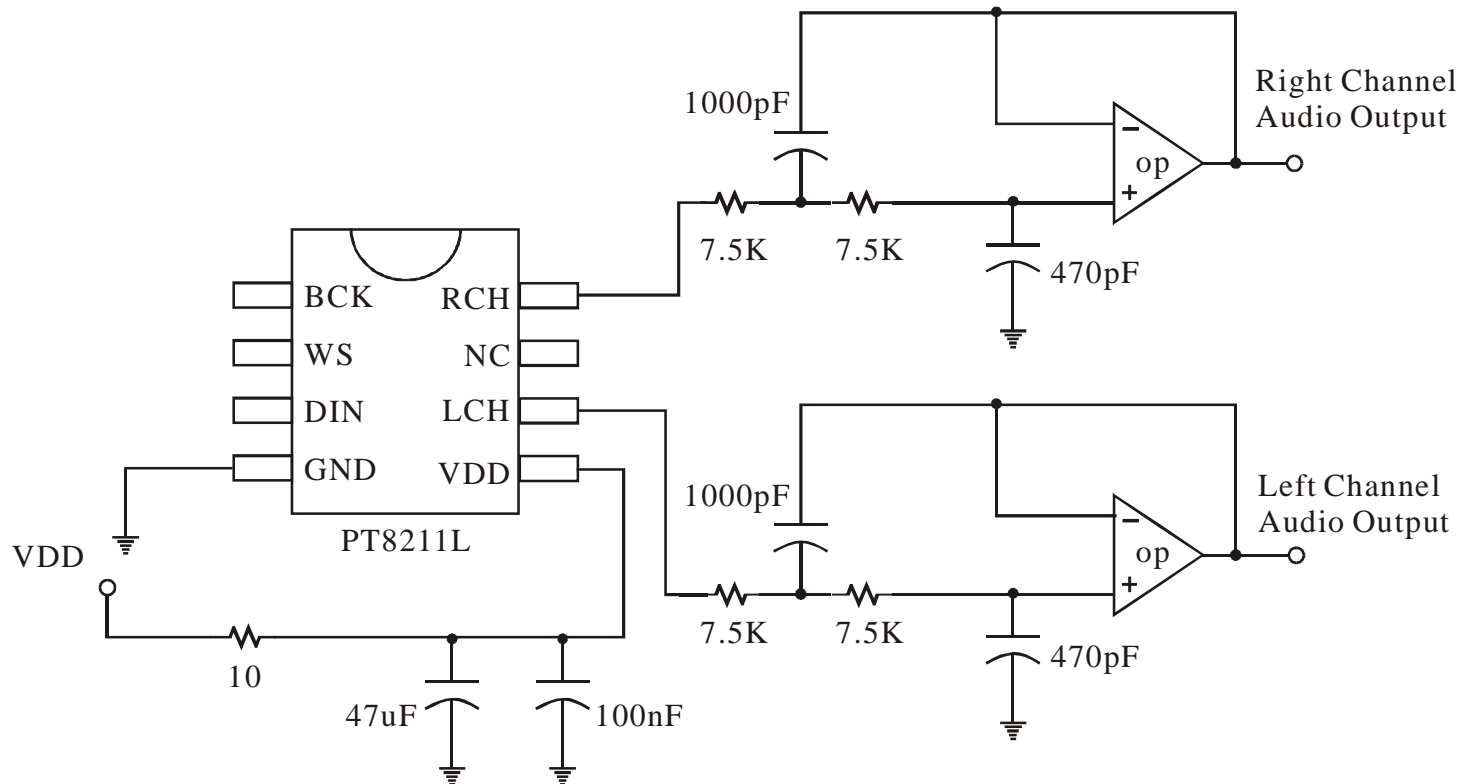# PIN CONFIGURATION

PT8211

Princeton Technology Corp.

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APPLICATION CIRCUIT

For further suppress residual noise, we suggestion place an additional low pass filter after the analog output of PT8211. Please refer to circuit shown on below, this is a simple second-order analog post filter. If low noise output is very important for your circuit design we suggestion uses regulated power supply.

ORDERING INFORMATION

Order Part Number	Package Type	Top Code
PT8211-S	8 Pins, SO Package	PT8211-S
PT8211	8 Pins, DIP Package	PT8211