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## 4-Channel Input Audio Processor IC

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**PT2314**

### Description

PT2314 is a four-channel input digital audio processor utilizing CMOS Technology. Volume, Bass, Treble and Balance are incorporated into a single chip. Loudness Function and Selectable Input Gain are also provided to build a highly effective electronic audio processor having the highest performance and reliability with the least external components. All functions are programmable using the I<sup>2</sup>C Bus. The pin assignments and application circuit are optimized for easy PCB layout and cost saving advantage for audio application.

### Features

- CMOS Technology
- Least External Components
- Treble and Bass Control
- Loudness Function
- 4 Stereo Inputs with Selectable Input Gain
- Input/Output for External Noise Reduction System/Equalizer
- 2 Independent Speaker Controls for Balance Control
- Independent Mute Function
- Volume Control in 1.25 dB/step
- Low Distortion
- Low Noise and DC Stepping
- Controlled by I<sup>2</sup>C Bus Micro-Processor Interface
- Available in 28 Pins, DIP/SO Package

### Applications

- Car Stereo (Audio)
- Hi-Fi Audio System

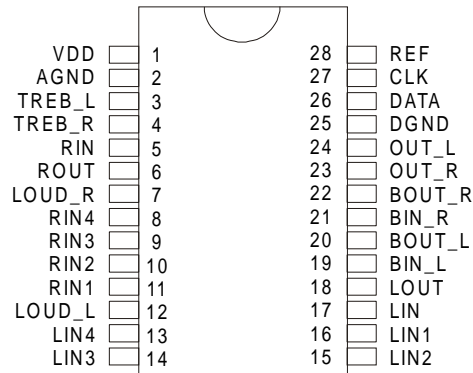
Note: Purchase of I<sup>2</sup>C Component of Princeton Technology Corporation (PTC) conveys a license under Philips I<sup>2</sup>C Patent Right to use these components in any I<sup>2</sup>C System, provided that the system conforms to the I<sup>2</sup>C Standard Specification defined by Philips



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**Pin Configuration**



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**Order Information**

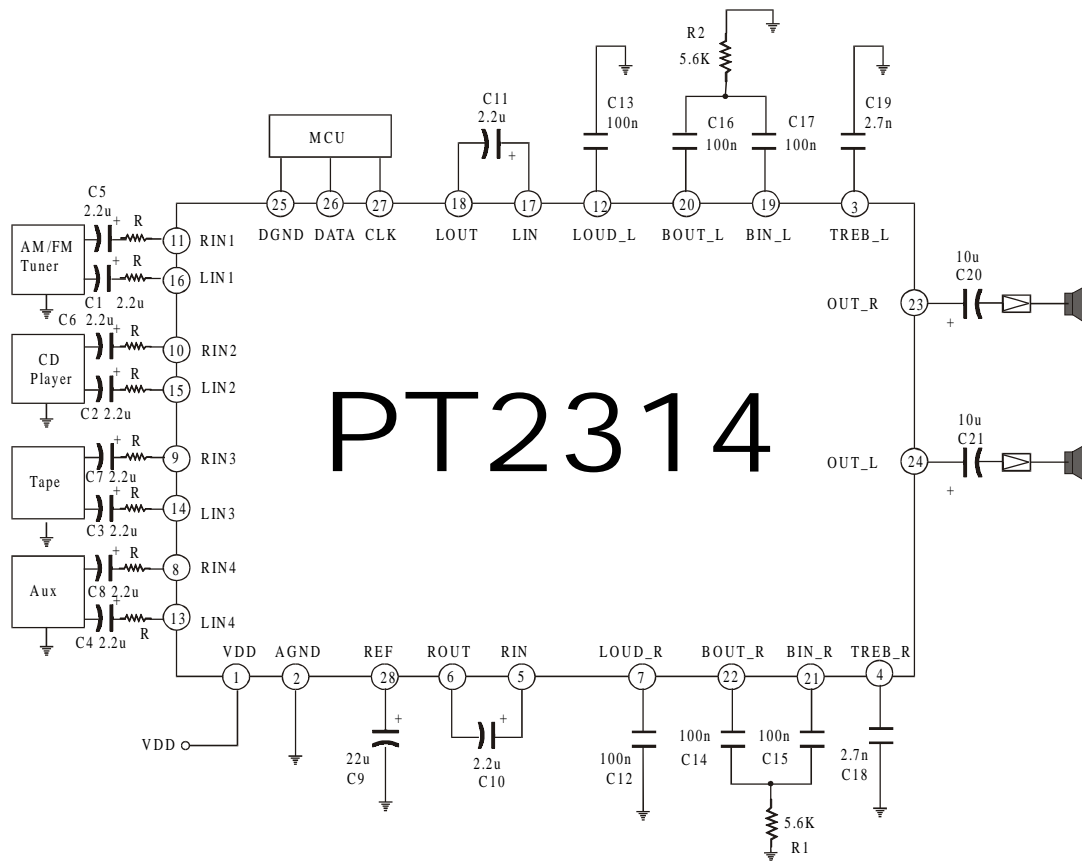
Valid Part Number	Package Type
PT2314-D	28 Pins, DIP (300 mil)
PT2314	28 Pins, SO (300 mil)



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Application Circuit



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- Note:
1. It is suggested that you use Mylar Capacitor for capacitors, C12 ~ C19.
  2. Resistor ( R ) Range = 2.0 K Ohms to 3.6 K Ohms
  3. Recommended Value of Resistor ( R ) = 2.4 K Ohms