



DESCRIPTION

PT2315 is a two-channel digital audio processor utilizing CMOS Technology. Volume, Bass, Treble and Balance Controls are incorporated into a single chip. Loudness Function is 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 I²C Bus. The pin assignments and application circuit are optimized for easy PCB layout and cost saving advantage for audio application. Housed in a 20-pin DIP/SOP, PT2315 is pin-to-pin compatible with TDA7315 and is very similar in performance with the later.

FEATURES

- CMOS technology
- Least external components
- Treble and Bass control
- Loudness function
- Input/output for external noise reduction system/equalizer
- 2 independent speaker controls for Balance function
- Independent mute function
- Volume control in 1.25dB/step
- Low distortion
- Low noise and DC stepping
- Controlled by I²C bus micro-processor interface
- Pin-to-pin compatible with TDA7315

APPLICATIONS

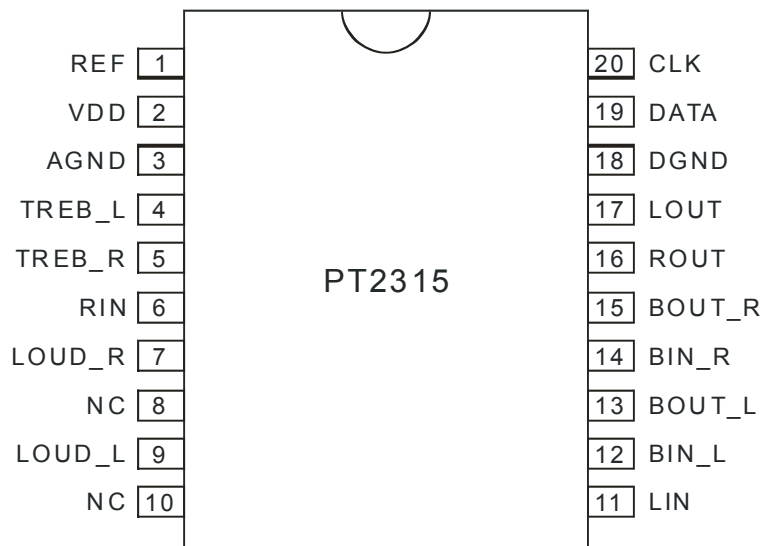
- Car stereo (Audio)
- Hi-Fi audio system
- Can be used in all I²C system applications

Note:

Purchase of I²C Component of Princeton Technology Corporation (PTC) conveys a license under Philips I²C Patent Right to use these components in any I²C System, provided that the system conforms to the I²C Standard Specification defined by Philips



PIN CONFIGURATION

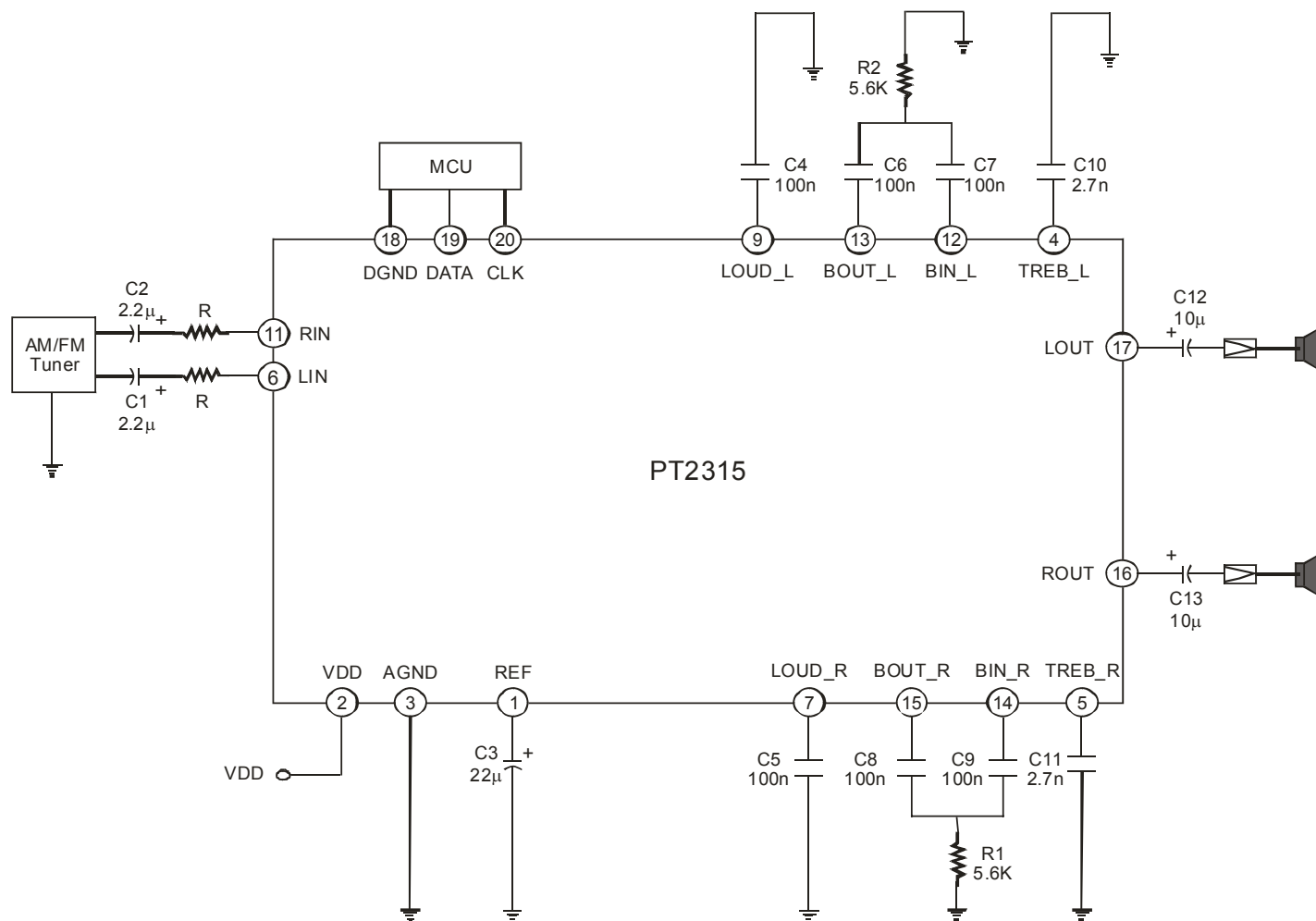




2-Channel Audio Processor IC

PT2315

APPLICATION CIRCUIT



Notes:

1. The Resistor (R) range=2.0KΩ ~ 3.6KΩ.
2. Resistor (R) Recommended Value=2.4KΩ.



ORDER INFORMATION

| Valid Part Number | Package Type | Top Code |
|-------------------|----------------------|----------|
| PT2315 | 20 Pins, SOP, 300mil | PT2315 |
| PT1215-D | 20 Pins, DIP, 300mil | PT2315-D |
| PT2315 (L) | 20 Pins, SOP, 300mil | PT2315 |
| PT2315-D (L) | 20 Pins, DIP, 300mil | PT2315-D |

Notes:

1. (L), (C) or (S) = Lead Free.
2. The Lead Free mark is put in front of the data code.