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## 16 Bits Digital-to-Analog Converter IC

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**PT8215**

### Description

PT8215 is a 16 bits Digital-to-Analog Converter IC utilizing CMOS Technology. PT8215 converts the 16 bits serial data into an analog output current. Digital data is internally converted to floating point expression whose format consists of 10 bits mantissa and 7-step exponent. Using an R-string voltage divider, this floating point expression data is then converted to Analog Current. Thus, 16 bits dynamic range is achieved. The current of each output channels of PT8215 is driven by an operational amplifier allowing easy analog output

PT8215 can be pin-to-pin compatible with TDA1545 by modifying the bias circuit. It can be used with the Japanese input formats: time multiplexed, two's complement, MSB first TTL level serial input data. It has been tested on sound card with the popular 44.1 KHz sampling rate and can be used at a higher sampling rate. PT8215 is housed in an 8-pin SO or DIP Package.

### Features

- CMOS Technology
- Low Power Consumption
- Two Output Current Channels in the same chip
- 16-bits Dynamic Range
- Low Total Harmonic Distortion
- 5 Volts Single Power Supply
- Available in 8 pins, SO or DIP Package

### Applications

- Digital Audio Equipment
  - CD Player/VCD
  - Sound Card
  - MPEG Card
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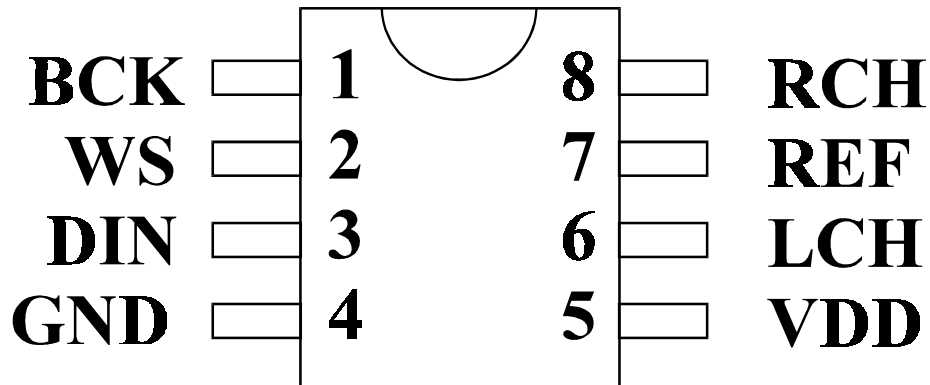
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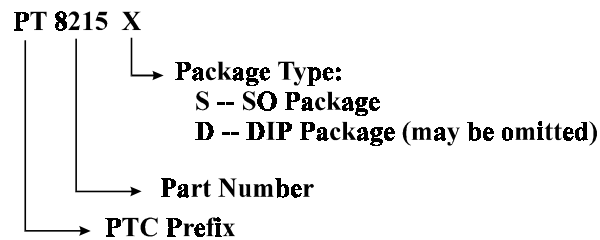
### Pin Configuration



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### Ordering Information

Valid Part Number	Package Description
PT8215-S	8 Pins, SO
PT8215	8 Pins, DIP





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## Application Circuit

