Princeton Technology Corp.
Tel: 886-2-29162151
Fax: 886-2-29174598
URL: *http://www.princeton.com.tw*

DESCRIPTION

PT2253B is an electronic volume controller IC utilizing CMOS Technology specially designed for use on audio equipment. It has two (2) built-in channels making it ideally suitable for mono and stereo sound applications. PT2253B provides a wide frequency response range and a very low harmonic distortion to mention a few; thereby guaranteeing a highly effective and reliable performance.

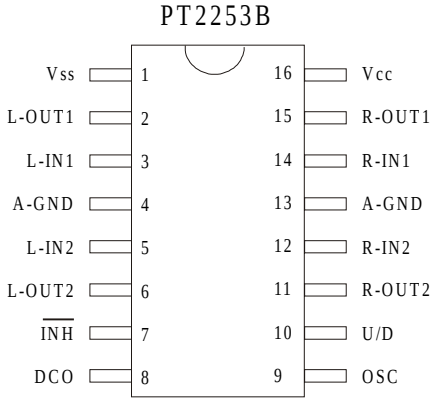
FEATURES

- ❒ CMOS Technology
- ❒ Low Power Consumption
- ❒ Operating Voltage Range : Vcc = 4 ~ 12 V
  (Backup Voltage is up to 4 V)
- ❒ 0dB to -68dB attenuation controlled by 2dB/step
- ❒ 2 Channels in each chip
- ❒ Capable to control attenuation by a built-in oscillator and Up/Down Pin
- ❒ Single Power Supply or Dual Power Supplies of (+) and (-) can be used
- ❒ Wide Frequency Response Range
- ❒ Very Low Harmonic Distortion
- ❒ Available in 16 pins, DIP or SO Package

APPLICATIONS

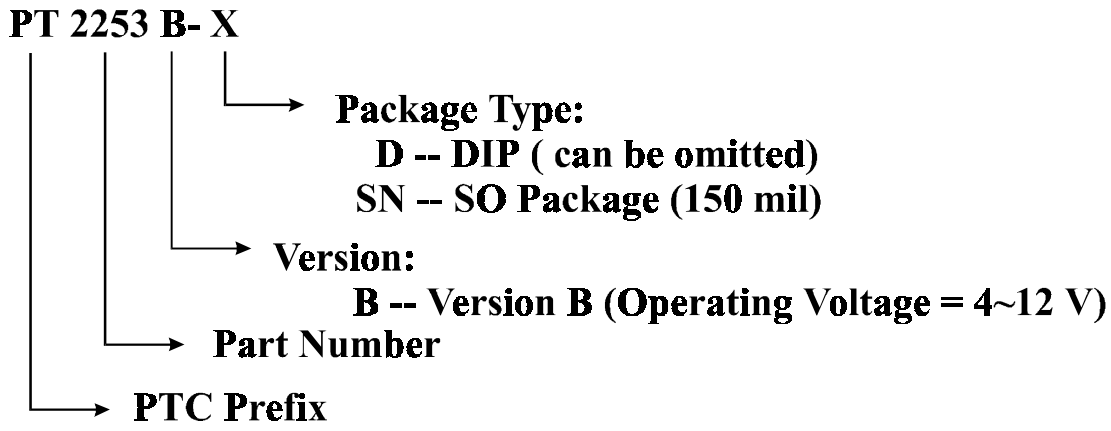
- ❒ Audio Equipment Volume Control
- ❒ Traditional VR Replacement

PIN CONFIGURATION



ORDER INFORMATION

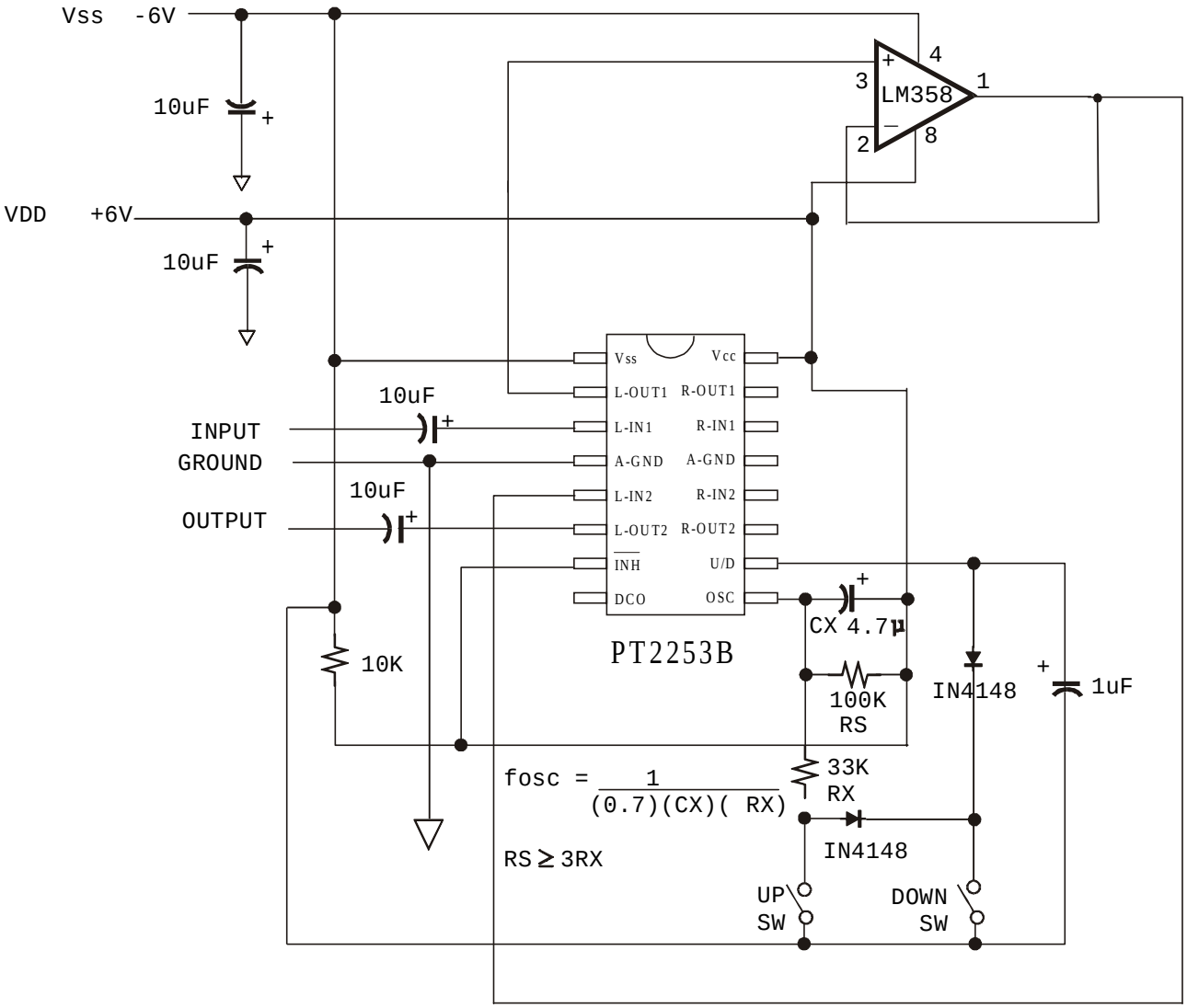
Valid Part Number	Package
PT2253B	16 Pins, DIP
PT2253B-SN	16 Pins, SO (150 mil)



Note: PTC also offers PT2253A for an Operating Voltage Range = 6.0 ~12.0 V.

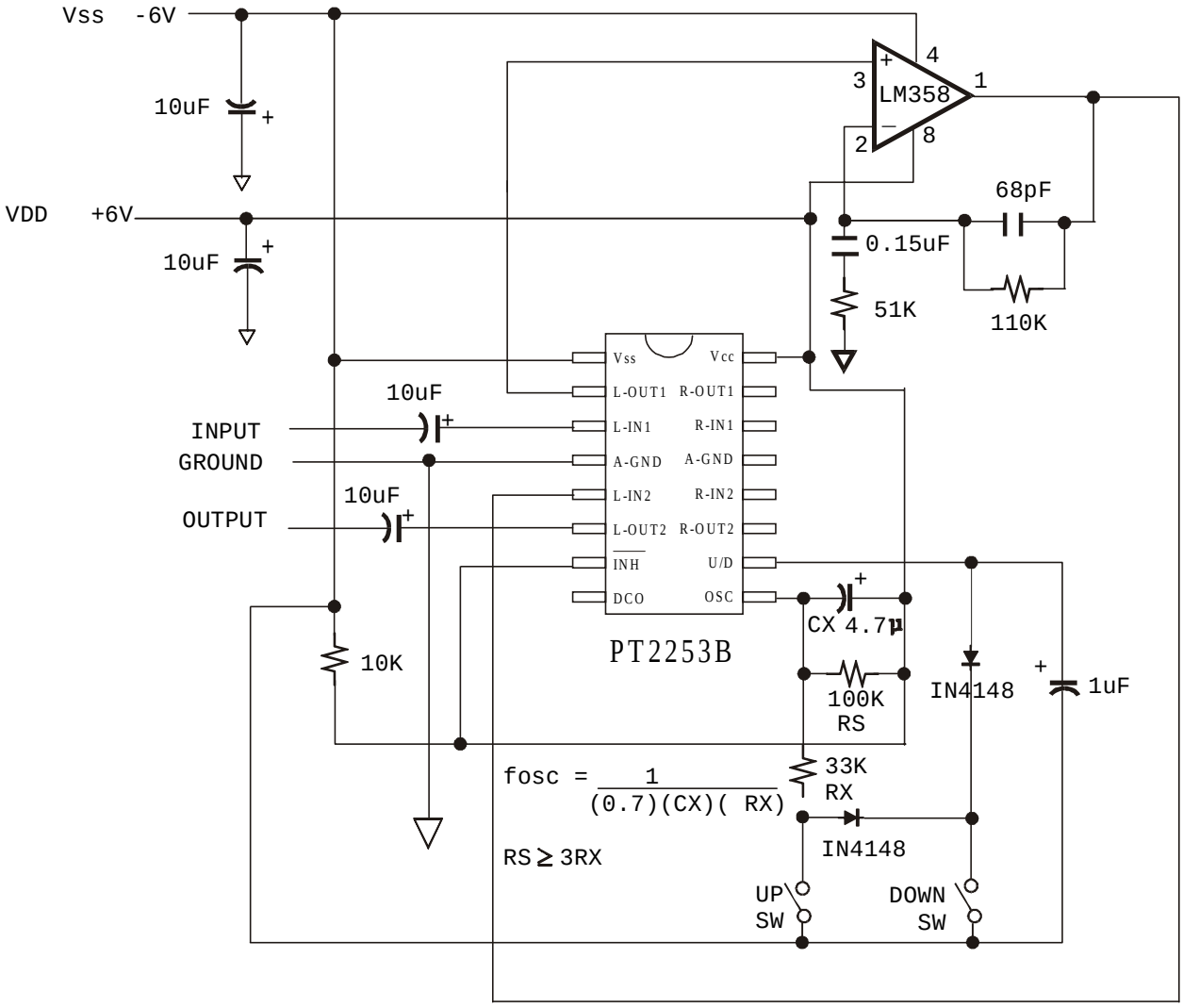
APPLICATION CIRCUIT 1

Dual Power Supply (L-Channel Only)



APPLICATION CIRCUIT 2

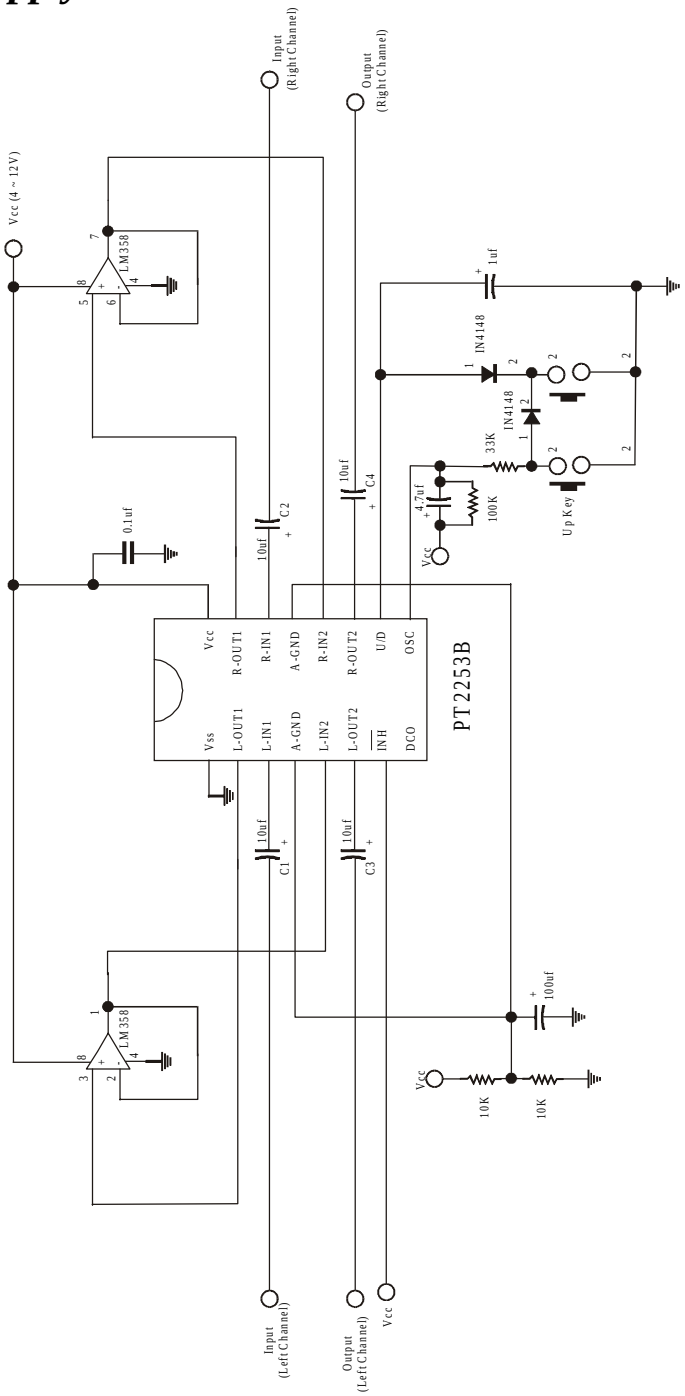
Dual Power Supply (L-Channel Only)



Note: Since the Buffer Amp between Att-1 and Att-2 is already 10dB Voltage Gain, higher input level may cause OP Amp's Output Clipping. To avoid unwanted distortion, the input signal level applied at IN-1 should not be over 1 Vrms.

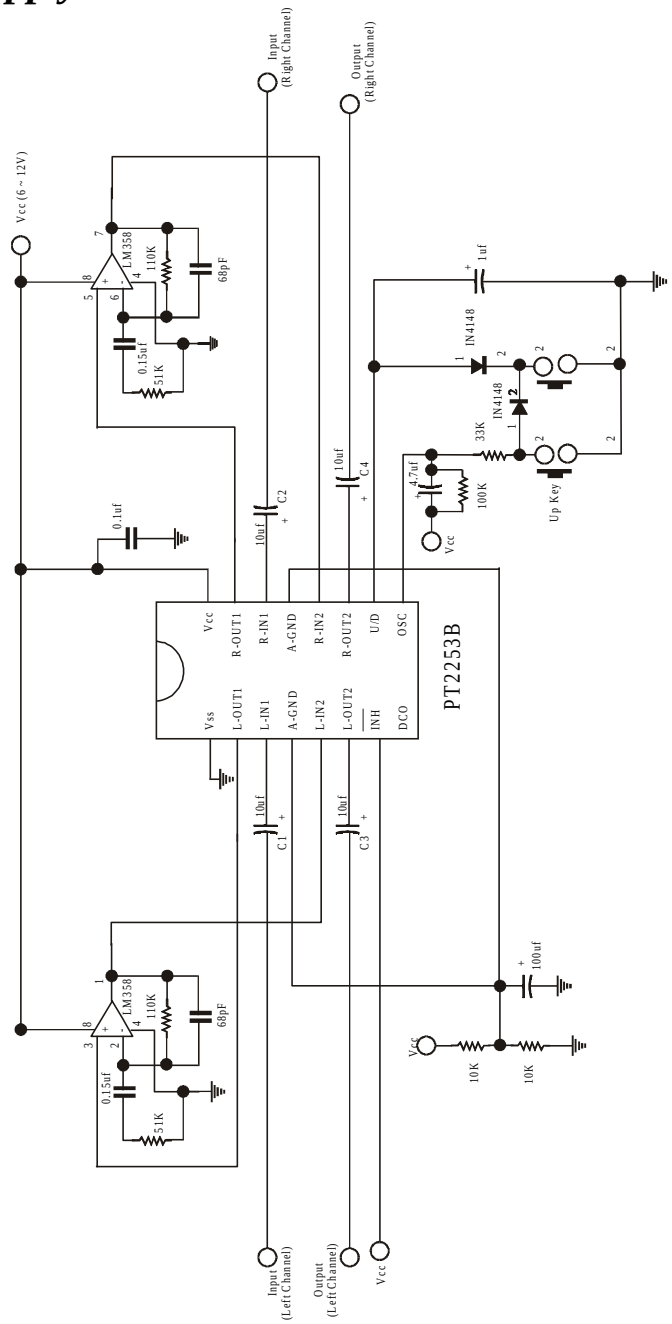
APPLICATION CIRCUIT 3

Single Power Supply



APPLICATION CIRCUIT 4

Single Power Supply



Note: Since the Buffer Amp between Att-1 and Att-2 is already 10dB Voltage Gain, higher input level may cause OP Amp's Output Clipping. To avoid unwanted distortion, the input signal level applied at IN-1 should not be over 1 Vrms.