



## DESCRIPTION

PT2318 is a sound fader controller IC utilizing CMOS Technology specially designed for car radio hi-fi audio applications. Four selectable stereo inputs, 1 mono input, bass, treble, volume, balance and fader controls, mute function and a special loudness feature which is automatically controlled in combination with the volume level setting are all built into a single I<sup>2</sup>C bus controlled stereo preamplifier chip having the highest performance and reliability. Pin assignments and application circuits are optimized for easy PCB layout and cost saving advantages.

## FEATURES

- CMOS Technology
- I<sup>2</sup>C Bus Control Interface
- 4 Selectable Stereo Inputs
- 1 Mono Input
- Volume, Balance and Fader Controls
- Bass & Treble Controls
- Noise Reduction Circuit Interface provided
- External Equalizer Interface provided
- Mute Control at Audio Signal Zero Crossing
- Internal Power-On Reset Function
- Mute Function controlled via the I<sup>2</sup>C Bus or Pin
- Special Automatic Loudness Feature in combination with the Volume Setting

## APPLICATIONS

- Car Audio
- Hi-Fi Audio Applications



## PIN CONFIGURATION

|        |                          |    |    |                          |        |
|--------|--------------------------|----|----|--------------------------|--------|
| SDA    | <input type="checkbox"/> | 1  | 32 | <input type="checkbox"/> | SCL    |
| GND    | <input type="checkbox"/> | 2  | 31 | <input type="checkbox"/> | VCC    |
| SL_OUT | <input type="checkbox"/> | 3  | 30 | <input type="checkbox"/> | SR_OUT |
| FL_OUT | <input type="checkbox"/> | 4  | 29 | <input type="checkbox"/> | FR_OUT |
| TRE_L  | <input type="checkbox"/> | 5  | 28 | <input type="checkbox"/> | TRE_R  |
| BAS2_L | <input type="checkbox"/> | 6  | 27 | <input type="checkbox"/> | BAS2_R |
| BAS1_L | <input type="checkbox"/> | 7  | 26 | <input type="checkbox"/> | BAS1_R |
| VOL1_L | <input type="checkbox"/> | 8  | 25 | <input type="checkbox"/> | VOL1_R |
| LOUD_L | <input type="checkbox"/> | 9  | 24 | <input type="checkbox"/> | LOUD_R |
| SEL_1  | <input type="checkbox"/> | 10 | 23 | <input type="checkbox"/> | SEL_R  |
| IN_L4  | <input type="checkbox"/> | 11 | 22 | <input type="checkbox"/> | IN_R4  |
| MUTE   | <input type="checkbox"/> | 12 | 21 | <input type="checkbox"/> | VREF   |
| IN_L3  | <input type="checkbox"/> | 13 | 10 | <input type="checkbox"/> | IN_R3  |
| MONO   | <input type="checkbox"/> | 14 | 19 | <input type="checkbox"/> | CAP    |
| IN_L2  | <input type="checkbox"/> | 15 | 18 | <input type="checkbox"/> | IN_R2  |
| IN_L1  | <input type="checkbox"/> | 16 | 17 | <input type="checkbox"/> | IN_R1  |

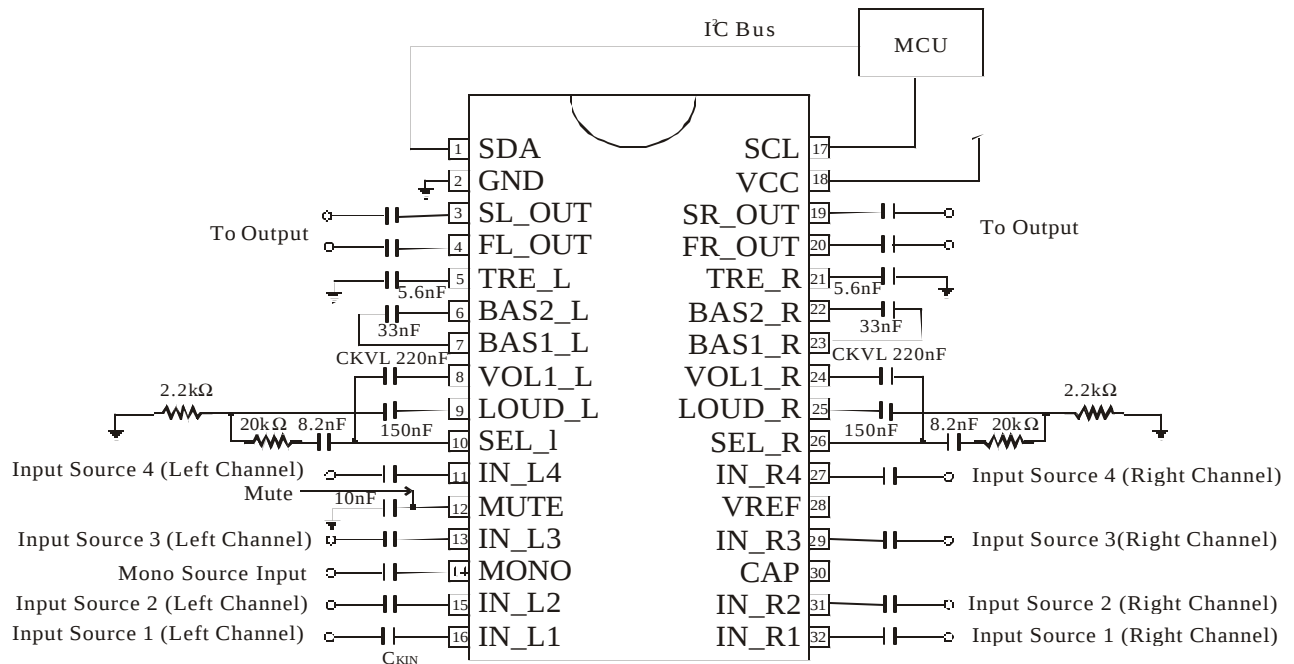


Sound Fader Controller IC

Preliminary

PT2318

APPLICATION CIRCUIT



ORDER INFORMATION

| Valid Partnumber | Package Type                   |
|------------------|--------------------------------|
| PT2318           | 32-pins, SOP Package (300 mil) |