DESCRIPTION
PT2259 is an 8-pin 2-channel volume controller which utilizes CMOS technology and incorporates the I²C interface control. The controller features an attenuation range of 0 to -79dB, low noise output, a high degree of stereo separation and requires only a small number of external components. PT2259 is an essential component for modern audio visual systems.

APPLICATIONS
- Audio/visual surround sound systems
- Car audio systems
- Mini-compo systems
- Computer multi-media speakers
- Other audio applications

FEATURES
- Attenuation range: 0 to -79dB in 1dB steps
- Operating voltage: 4 to 10V
- Low power consumption
- Low signal noise: S/N > 100dB (A-weighting)
- Stereo separation > 100dB
- Requires few external components
- 2-channel volume individual adjust
- Available in 8 Pins DIP or SOP

BLOCK DIAGRAM
APPLICATION CIRCUIT

IMPROVE VDD NOISES REJECTION

ADD a RC filter on the VDD path

Use a regulated supply

IMPROVE INPUT ESD HANDLING CAPABILITY

ADD a Resistor on the input path

ADD a protection diode on the input path
ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Valid Part Number</th>
<th>Package Type</th>
<th>Top Code</th>
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<tbody>
<tr>
<td>PT2259</td>
<td>8 Pins, DIP, 300mil</td>
<td>PT2259</td>
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<tr>
<td>PT2259-S</td>
<td>8 Pins, SOP, 150mil</td>
<td>PT2259-S</td>
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PIN CONFIGURATION

PIN DESCRIPTION

<table>
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<tr>
<th>Pin Name</th>
<th>I/O</th>
<th>Description</th>
<th>Pin No.</th>
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<tbody>
<tr>
<td>LIN</td>
<td>I</td>
<td>Left Channel Input (capacitor coupled to input port)</td>
<td>1</td>
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<tr>
<td>LOUT</td>
<td>O</td>
<td>Left Channel Output (capacitor coupled to output port)</td>
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<td>VSS</td>
<td>-</td>
<td>Ground</td>
<td>3</td>
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<td>SDA</td>
<td>I</td>
<td>I²C Data Input</td>
<td>4</td>
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<tr>
<td>SCL</td>
<td>I</td>
<td>I²C Clock Input</td>
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<td>VDD</td>
<td>-</td>
<td>Power Supply</td>
<td>6</td>
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<tr>
<td>ROUT</td>
<td>O</td>
<td>Right Channel Output (capacitor coupled to input port)</td>
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<tr>
<td>RIN</td>
<td>I</td>
<td>Right Input Channel (capacitor coupled to output port)</td>
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IMPORTANT NOTICE

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