Dual channel digitally controlled linear-dB variable gain amplifier

Part number
- RS5110

Overview
The RS5110 is a digitally controlled linear in dB variable gain amplifier operating in the UHF frequency range.

Features
- 8-bit variable gain amplifier
- 0.2GHz to 1GHz frequency range
- Integrated 8-bit DAC
- 1.8V supply voltage

Deliverable
- Close source database (flat GDSII)
- Open source database
- Support

Applications
- Gain control stage
- Power control and AGC
- Wireless transmitters
- Wireless receivers

Technology node
- TowerJazz SBC18

Main specifications

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency range</td>
<td>0.2GHz - 1GHz</td>
</tr>
<tr>
<td>Range</td>
<td>-60dB to +40dB</td>
</tr>
<tr>
<td>Flatness</td>
<td>&lt; 0.8dB</td>
</tr>
<tr>
<td>DC current</td>
<td>17mA</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>1.8V</td>
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</tbody>
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