6th order gmC low pass filter

Part number
- RS6310

Overview
The RS6310 is a 6th order gmC low pass filter operating with 3dB cut-off frequency at around 70MHz.

Features
- 70 MHz 3 dB bandwidth
- Low noise characteristics
- Tunable frequency response
- Variable gain
- 1.8V supply voltage

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

Applications
- Wireless transmitters
- Wireless receivers
- IF chains

Technology node
- TowerJazz TS18

Main specifications

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter order</td>
<td>6</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>~70MHz</td>
</tr>
<tr>
<td>Area</td>
<td>0.26 mm x 0.24 mm</td>
</tr>
<tr>
<td>DC current</td>
<td>3.6 mA</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>1.8 V</td>
</tr>
</tbody>
</table>

Block diagram

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