

# Differential 4<sup>th</sup> order RC complex filter

## Part number

- ◆ RS6110

## Overview

The RS6110 is a digitally programmed 4<sup>th</sup> order RC complex filter. According to the application, the RS6110 can be configured as either real or complex filter.

## Features

- ◆ Variable bandwidth (100 KHz to 20 MHz)
- ◆ 8-bit gain control resolution
- ◆ Variable Q
- ◆ 1.8V supply voltage

## Deliverable

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

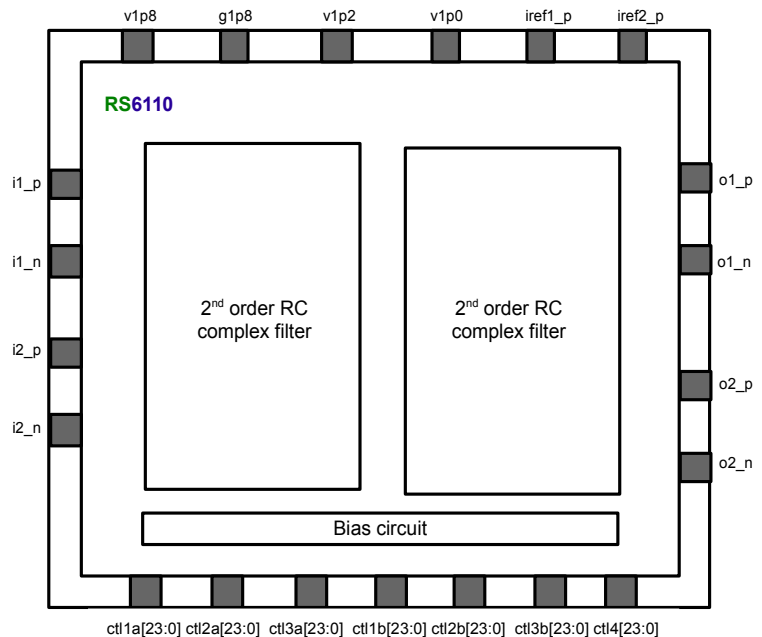
## Applications

- ◆ Analog baseband receivers
- ◆ Analog baseband transmitters
- ◆ IF chains

## Technology node

- ◆ TowerJazz SBC18

## Block diagram



## Main specifications

Parameters	Value
3dB cut-off frequency	100 KHz to 20 MHz
Gain control range	> 80dB
Area	0.42 mm x 1.2 mm
DC current	3.4mA
Supply voltage	1.8V

## Contact

RIO SYSTEMS LTD  
 7 Gush Etzion St.,  
 Givat Shmuel, 54030, Israel  
 E-mail: [info@rio-system.com](mailto:info@rio-system.com)  
 Tel: +972 3 5349109