

Differential 2nd order RC complex filter

Part number

- ◆ RS6100

Overview

The RS6100 is a digitally programmed 2nd order RC complex filter. According to the application, the RS6100 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

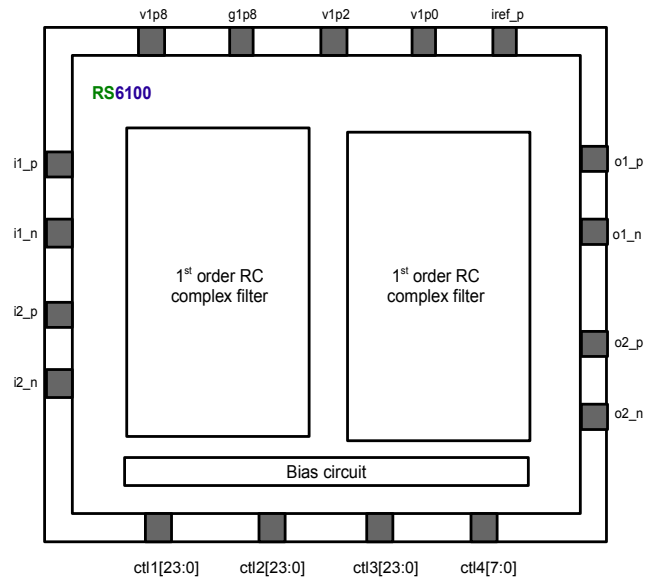
Applications

- ◆ 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	~60dB
Area	0.42 mm x 0.6 mm
DC current	1.8mA
Supply voltage	1.8V

Contact

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