

# Broadband variable gain amplifier

## Part number

- ◆ RS5120

## Overview

The RS5120 is a broadband wide range variable gain amplifier with integrated DC offset compensation.

## Features

- ◆ 70 dB variable gain amplifier
- ◆ 500 KHz to 400 MHz frequency range
- ◆ Low noise
- ◆ Low current consumption

## Deliverable

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

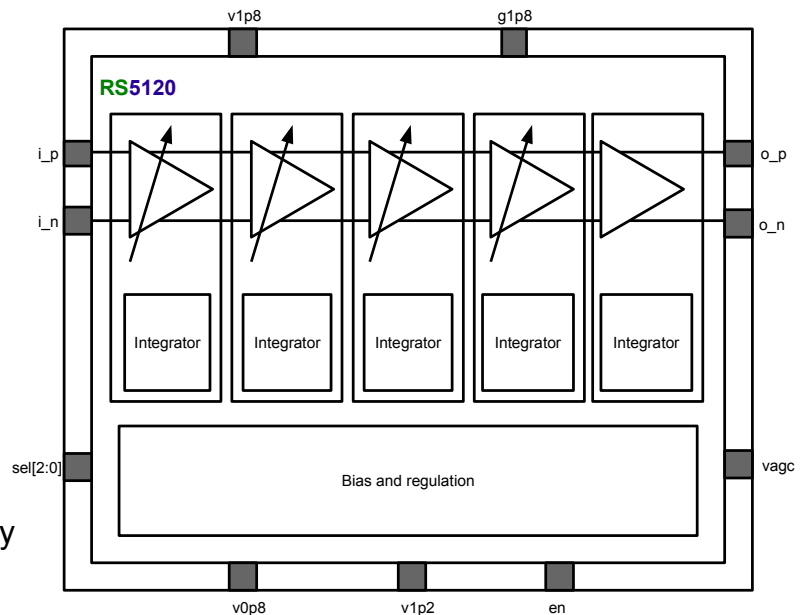
## Applications

- ◆ Gain control stage
- ◆ Power control and AGC
- ◆ Analog baseband
- ◆ Wireless receivers

## Technology node

- ◆ TowerJazz TS18

## Block diagram



## Main specifications

Parameters	Value
Frequency range	500 KHz – 400 MHz
Gain control range	0 dB to +65 dB
Area	0.68 mm x 0.24 mm
DC current	2.6 mA
Supply voltage	1.8 V

## 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