

26-30GHz Low-Noise Amplifier

Features

Small signal gain: 18 dB
 Low noise figure: 2.9 dB
 Current consumption: 35 mA @ 1.5 V
 Shut-down current: 0.8 mA
 Input/output impedance internally matched to 50 Ω
 3.2dBm RX Input Referred IP3
 Single DC supply: 1.5V
 Area: 1.6 x 1.5mm

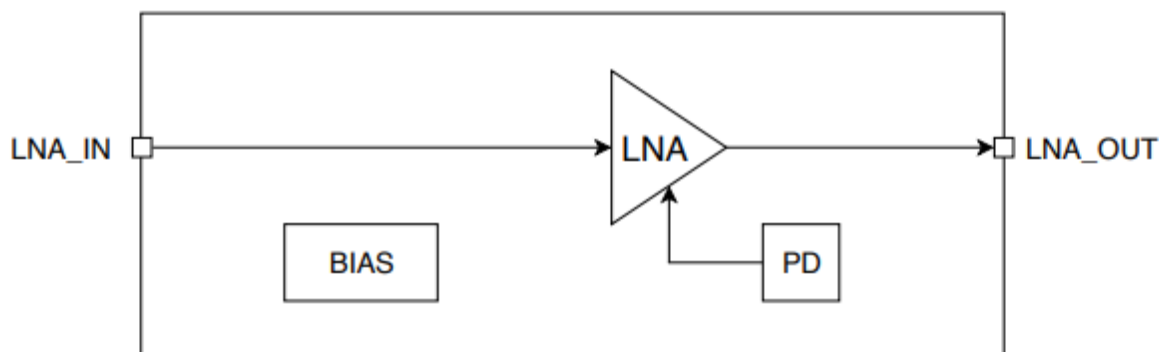
Applications

Microwave Backhaul
 5G Communications
 mm-Wave Wireless Phase Arrays

Description

The WEA2630L45G is an integrated low-noise amplifier designed for Microwave Backhaul, 5G Communications and mm-Wave Wireless Phase Arrays receiver applications. The WEA2630L45G operates between 26 and 30GHz with a signal gain of 18 dB, noise figure of 2.9 dB and current consumption 35 mA from 1.5V supply. The WEA2630L45G is fabricated on GlobalFoundries 45RFSOI process occupying a total silicon area of 1.6mm x 1.5mm.

Simplified Schematic



Availability

GF 45RFSOI





Deliverables

GDSII, Database, SystemVerilog Models

About weasic

Weasic Microelectronics S.A. designs, develops, and markets high quality complex analog and RF IP for wireless communications and wireless sensors applications, helping semiconductor and system companies to shrink the product design cycle. WEASIC, silicon verified IP is designed in the state of the art CMOS, CMOS-SOI and SiGe processes and can be easily ported and customized to serve the development of 5G and Backhaul communications transceivers, mmWave front-end modules, and RADAR sensors.

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