PRODUCT OUTLINE

CM1211bg – 750mV Voltage Reference
Ultra Low Voltage (1V), Ultra Low Power (400nW)

Part Number

- CM1211bg

Status

- Silicon Under Tests

Features

- Ultra low power voltage reference
- V_{ref}=750mV ±2% (after trimming)
- Current consumption below 400nA in active mode
- Flexible voltage operation: 1.0–3.3V
- Enable control
- Indicative area: 0.012mm^2

Overview

This macro-cell is an ultra low power general purpose voltage reference generator core designed for LFoundry 0.15μm LF150 CMOS technology STD (Standard) and LP (Low Power) process.

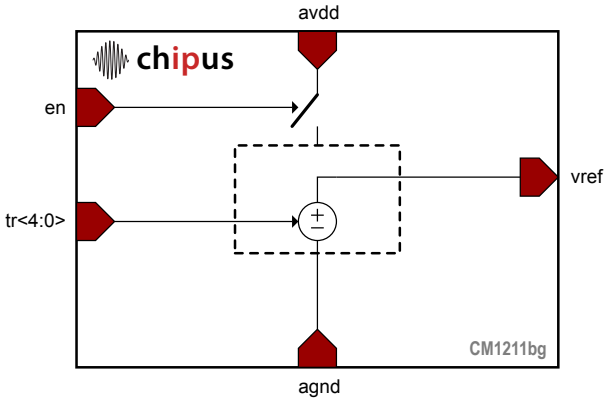
The circuit generates an unbuffered 750mV, temperature compensated voltage reference (200ppm/°C). The reference can be trimmed against process variations by a 5-bit digital bus.

The core is easily retargeted to any other CMOS technology due to high portability MOSFET-only voltage reference architecture.

Applications

- Battery powered equipment
- Passive/active RFID tag ICs
- Energy Haversting ICs
- Hearing Aids

Functional Diagram



Technology

- LFoundry 0.15μm LF150 CMOS

Deliverables

- Datasheet/Integration Guide
- HDL Model
- Flat GDSII database/LVS netlist
- Customer Support

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