



PRODUCT OUTLINE

CM1215ff – Bandgap Voltage Reference
 Low TC (13ppm/°C), PSRR-42 dB @ 100kHz

Part Number

■ CM1215ff

Features

- $V_{ref}=1.2325V \pm 0.35\%$
(without trimming)
- Supply voltage: 5 V
- Current consumption: 32 μ A
- Automatic start-up as soon as power supply starts
- Current reference: 400nA
- Indicative area: 0.0151mm²

Applications

- Battery powered equipment
- USB powered equipment
- Battery charger

Technology

- SiITerra 0.18 μ m C18GH5 CMOS

Deliverables

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

Status

- Silicon proven

Overview

This macro-cell bandgap voltage reference generator core designed for SiITerra 0.18 μ m CL18GH5 CMOS technology. The core is ideal as a general purpose reference voltage in applications where low TC is required with quick response dynamic.

The circuit generates an unbuffered 1.23V, temperature compensated bandgap voltage reference (13ppm/°C). Internal start-up circuit allows that the reference voltage is available as soon as the power supply ramps up, so that no enable/disable function is necessary to start-up the circuit.

The core is easily re-targeted to any other CMOS technology.

Functional Diagram

