



PRODUCT OUTLINE

CM4043hh – 2MHz 1.71-5.5V Oscillator

Low Power, $\pm 1\%$ accuracy at @ 27°C after trimming

Part Number

- CM4043hh

Features

- 2MHz $\pm 2.5\%$ after trimming
- Wide Supply Voltage Range:
 - From 1.71 to 5.5V
- Op. Temperature Range:
 - From -40°C to 85°C
- Trimmable
- Indicative area: 0.018mm²

Applications

- Portable Devices SoC/PMIC

Technology

- TSMC 0.13µm BCD Gen3+

Deliverables

- Flat GDS Database
- LVS Netlist
- Behavioral model
- LIB
- LEF
- Datasheet

Status

- GDS Available

Overview

The CM4043hh is a low power, high-accuracy, output glitch-free, wide supply voltage range, general purpose 2MHz oscillator. It achieves $\pm 1\%$ accuracy after trimmed @ 27°C and $\pm 2.5\%$ from -40 to 85°C. A 6-bit digital bus allows frequency adjustment against process variation.

The trimming covers $\pm 25\%$ of the frequency range, and has minimum variation (1 LSB) of 16kHz.

It is suggested to combine this IP with CM1227hh IP which has all the characteristics needed for the reference current and voltages.

Functional Diagram

