

High Precision RC-Oscillator

FEATURES

- 4MHz to 256MHz possible operating frequency
- Max. frequency deviation below $\pm 0.5\%$
- No external Components
- Power Down Mode with less than 1uA current consumption
- Fast wake-up time

APPLICATIONS

On chip systems Clock requiring high frequency precision and low power consumption.

TECHNOLOGY: Standard CMOS (no special options required)

OVERVIEW

The cell is an integrated oscillator intended to run at between 4 - 256MHz (after calibration). A typical application would be for on-chip system clock. No external components are required. The cell features a Power Down Mode (PDM) in which the power consumption is very low. This makes the cell very suitable for portable and battery operated devices. The precision of the oscillation frequency is better than $\pm 0.5\%$ after calibration.

FUNCTIONAL DIAGRAM

