

### Calibrated 50-100MHz RC-Oscillator

#### FEATURES

- 50MHz to 100 MHz operating frequency
- Max. frequency deviation of  $\pm 5\%$  due to calibration
- No external Components
- Power Down Mode with less than 5uA current consumption
- Fast wake-up time

#### APPLICATIONS

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

**TECHNOLOGY:** 0.18um single poly, 5 Metal Low leakage CMOS Process

#### OVERVIEW

The cell is an integrated oscillator intended to run at between 50 - 100MHz (after calibration). A typical application would be for on-chip system clock. No external components are required. The cell features a Power Down Mode 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  $\pm 5\%$  after calibration.

#### FUNCTIONAL DIAGRAM

