

Features

- OSC Nano power ring oscillator
- Ultra low current consumption: 35 nA (10 kHz)
- Built-in bias references
- Digital trim
- Available from 10 kHz to 20 MHz
- Clock operating voltage from 1.08 V to 5.5 V
- Startup monitor with reset generator
- Fast start-up time
- Core area: 0.03 mm²

General Description

OSCILLATOR: The oscillator SGC21543 is a programmable ring oscillator optimized for ultra low power applications. It has been optimized to work from 10 kHz to 10 MHz. The device uses a current controlled ring oscillator topology to achieve both ultra low power consumption and high noise immunity. For 32 kHz low precision RTC applications the SGC21543 can operate for weeks from the charge of a single super capacitor. It is specified from $T_j = -40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$.

Applications

Quick Reference

Applications Diagram