

SGC21547_01_GF_22FDSOI

LOW POWER RC OSCILLATOR

Features

- Low power RC oscillator
- Ultra-low current consumption
- Built-in bias references
- Digital trim
- Fast start-up time
- Start-up monitor with reset generator
- Glitch-free power up and power down
- Large programming range, from 10MHz to 160MHz

General Description

SGC21547_01_GF_22FDSOI is a digitally controlled RC oscillator optimized for ultra-low power applications. Making use of a RC dependent oscillator topology, the SGC21547_01_GF_22FDSOI offers ultra-low power consumption and high temperature stability. It is specified from $T_j = -40^{\circ}\text{C}$ to $+125^{\circ}\text{C}$, being optimized for 10MHz to 160MHz range.

Applications

- IoT
- Hand held devices
- Wireless Power devices
- Battery powered stand-by devices

Quick Reference

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNIT
V_{IN}	Input Sup.	1.20	-	1.98	V
V_{DVDD}	Static DVDD	0.60	-	0.90	V
V_{DVDD}	Operation DVDD	0.70	-	0.90	V
F_{CLK}	Clock Range	10	-	160	MHz