

COMMITMENT **O CUSTOMER** JCCESS **SINCE 2008**

PRODUCTOUTILINE SGC21549_IP007702_GF_22FDX PRODUCTOUS SGC21549_IP007702_GF_22FDX WITH 64-BIT PUF

Features

- Nano power RC-based 100kHz oscillator
- · Fast start-up time
- · 64-bit PUF based on current-mirror mismatch
- Embedded 128-bit register for PUF raw output

General **Description**

SGC21549_IP007702_GF_22FDX is a digitally controlled RC based oscillator with embedded Physically Unclonable Function (PUF) implementation. Optimized for systems with security features, it offers high temperature stability and ultra-low power consumption, making use of a RC dependent oscillator topology. Designed for 100kHz, it is the best solution for low-cost identification and secure authentication applications due to its 64-bit input PUF with 128-bit raw output. It is specified from Tj = -40°C to +125 °C.

Applications

• IoT

Secure System-On-Chip (SSoC)

· Battery powered stand-by devices

Quick Reference

SYMBOL	DESCRIPTION	MIN	ТҮР	MAX	UNIT
V _{DVDD}	Digital Voltage	1.20	-	1.98	V
F _{CLK}	Clock Range	-	100	-	kHz
DC _{CLK}	Duty-Cycle	40	-	60	%

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