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exploiting the very  
high Q of the resonator  
to achieve the  
minimum power  
consumption  
compatible with the  
requirements on  
frequency stability and  
phase noise.

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frequency stability and  
phase noise.

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The low-frequency  
clock source can be an  
external 32 kHz  
crystal, or a low-power  
MEMS oscillator [8]. ...  
A 50  $\mu$ W, 2.1  
mdeg/s/ $\sqrt{\text{Hz}}$  frequency-  
to-digital converter for  
frequency-output

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high Q of the resonator  
to achieve the  
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Oscillators : Eric  
Vittoz ...**

SJK MHz MEMS  
oscillators-low power  
mems oscillators,  
power consumption of

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Watch  
3.5mA, size with 2016,  
2520, 3225, 5032,  
7050, high stability at  
10ppm, 1.8V to 3.3V  
available.

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**MHz MEMS Oscillator**  
**|Low Power MEMS**  
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SJK MEMS oscillator-  
programmable  
oscillator with low  
power oscillator,  
differential oscillator,  
high temp oscillator,  
32khz oscillator, and

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more, size with 1508,  
2016, 2520, 3225,  
7050, and more, high  
stability and more  
information

## Developments MEMS Oscillator - Integrated Circuits Quartz crystal, Crystal units, crystal

...

The DSC612 is a MEMS  
low power, ultra-small  
footprint, crystal-less  
family of clock  
generators. The  
DSC612 family is  
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and generates up to two independent LVCMOS outputs. Each output can be configured to generate any frequency from 2kHz to 100MHz. The DSC612 implements Microchip's proven PureSilicon™ MEMS technology to ...

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Available in a 0.25 millimeter package,

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the SiT80x3 family of MEMS oscillators can also supply two related frequencies. "We now have the lowest power and the thinnest package," claimed Jeff Gao, director of marketing at SiTime.

"Our power consumption is now less than 3.5 milliamps, which will extend the battery life of handheld devices."

## **Low-power MEMS**

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## 1. Power Consumption.

Quartz-based oscillators have much lower power consumption because they have the advantage of a fundamental or harmonic oscillation and a simple circuit structure. By contrast, MEMS-based oscillators consume more power because they have more circuitry. The PLL



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and LCVCO raise the  
total power  
consumption.

**Quartz Crystal vs.  
MEMS Oscillator  
Performance - ECS  
Inc ...**

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View our product  
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guides, and other  
information. Murata  
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with IC matching.

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quartz- and MEMS-

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based PureSilicon™  
Oscillators are available  
in a variety of industry-  
standard footprints to  
meet the requirements  
of your low-power or  
low-jitter applications.

**Oscillators |**  
**Microchip**  
**Technology**

This dissertation  
presents improvement  
to these MEMS  
technologies and  
introduces new  
approaches for

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wireless  
communication in low  
power wireless  
networks. First, this  
work presents  
oscillators based on  
the capacitive-gap  
transduced MEMS  
resonator. As wireless  
radio needs at least  
one such oscillator, the  
space and power  
savings offered by  
these ...

## **Capacitive-Gap MEMS Resonator-**

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**Based Oscillator  
Systems for ...**

Abrakon announces the release of the AMJM/AMJD/AMPM/AMPD series of power optimized MEMS (micro electro-mechanical systems) oscillators. These new series of MEMS come in package sizes as small as 1.6mm x 1.2mm x 0.84 while producing an accurate clock that can withstand shock and vibration.

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**Abracon | Abracon  
Releases New Series  
of Low Power MEMS**

The High Performance  
MEMS Oscillator  
product family is a  
programmable  
oscillator with low jitter  
and tight stabilities  
over a wide range of  
supply voltages and  
temperature ranges.  
These devices are SAW  
Oscillator equivalent  
XO's that are a Quartz  
alternative ideal for  
applications that do

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Crystal And MemS  
not require the best  
phase noise or jitter  
performance| Vectron  
International  
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**High Performance  
MEMS Oscillators**

The DSC61xxB family  
of MEMS oscillators  
combines the industry  
leading low power  
consumption and ultra-  
small packages with  
exceptional frequency  
stability and jitter  
performance over  
temperature. The

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single-output  
DSC61xxB MEMS  
oscillators are  
excellent choices for  
use as clock references  
in small, battery-  
powered devices such  
as wearable and  
And Systems

**Ultra-Small, Ultra-  
Low Power MEMS  
Oscillator**

Abstract:

Complementary metal-oxide-semiconductor micro-electromechanical system (CMOS MEMS)



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Crystal And MemS  
resonators provide  
considerable  
advantages in size,  
cost, and power  
consumption over their  
crystal-based  
counterparts. However,  
the need for external  
high bias-voltage to  
drive the MEMS  
structure has limited  
the application of  
CMOS MEMS in  
portable electronic  
applications.

**Ultra-low power**

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TCXO's with low phase noise and tight stability, suitable for stratum 3 and 1588 based timing applications as well as high shock military and industrial timing applications. The High Performance MEMS product family is a programmable oscillator with low jitter and tight stabilities

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over a wide range of  
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MEMS - Vectron  
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SiTime Corporation's  
general-purpose low-  
power oscillators are  
custom programmable  
by Digi-Key. Production  
qty's are available  
within 48 hours of  
purchase. Digi-Key's  
custom programming  
capabilities shorten

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engineers' design  
cycles enabling faster  
time to market.  
Experience Of

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Oscillators - SiTime |  
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offers a single element  
solution to measure  
the low-g acceleration  
vector, ...

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