

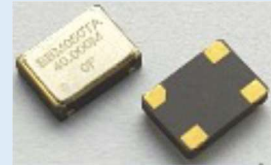
NEW

EQXO-75UIE Extended Industrial Temp. Oscillator

Manufactured in our UK facility this ruggedized high-reliability oscillator in a standard 7x5mm format is ideal for harsh industrial and COT's applications.

Features:

Frequency Range: 2.00MHz to 60.00MHz
 Operating Temperature: -40°C to 105° C
 Shock Survivability: 1500G
 Supply Voltages: 2.5V,3.3V and 5V
 Crystal Stabilisation: 96 hours at 100°C

**ITAR RESTRICTION FREE**

Datasheet: <https://www.euroquartz.co.uk/media/2247/eqxo-75uie-issue1.pdf>

Affect of Vibration on Oscillator Designs

One aspect often overlooked during the initial design stages, and especially if phase noise is a critical consideration, is degradation in spectral output and phase noise due to effects of vibration.

It has been found that even moderate levels of vibration can significantly introduce an unwanted low noise signal.

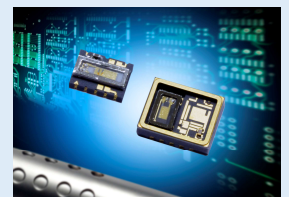
The **acceleration-sensitivity** of components is often a limiting factor in such applications, and the quartz crystal has proved to be a limiting factor.

The acceleration sensitivity is known as "**g-sensitivity**" and in well-designed oscillators is mainly due to the crystal element itself.

In order to ensure that an oscillator will meet the performance required in the final application it is imperative that the manufacturer understands the details of the application, such as the expected vibration levels and frequencies, plus the required performance under these conditions.

It is not possible to eliminate all of the effects of vibration on a crystal oscillator, but by understanding the system requirements, selecting the best technology and properly specifying the oscillators, it is possible to achieve the best match and acceptable performance for the application

A white paper is available on request courtesy of Greenray Industries



COMING SOON – A new range of VCO's

NEW

Features

Frequency - 20MHz ~ 7GHz
Supply Voltage - 3~12V
Phase Noise - 110dBC/Hz

Custom versions available

