Acceleration Sensitivity (G-sensitivity)

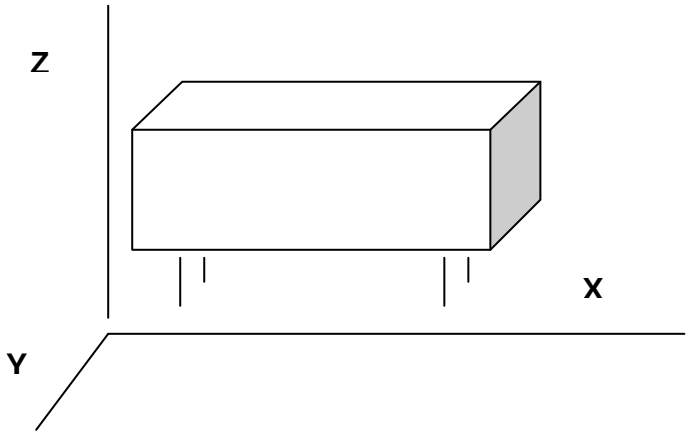
Acceleration sensitivity is defined as the frequency shift caused by subjecting the oscillator to acceleration:

$s = \Delta f / (f0 * g)$

with s = G-sensitivity
g = sine vibration (number of g)
f0 = nominal oscillator frequency
Δf = frequency shift

The table shows the maximum G-sensitivity for different types of oscillators and different crystal cuts in the vibration frequency range 5 to 2000 Hz. The nominal Frequency of the tested oscillators was 10 MHz in all cases.

	10MHz			
	QO1320		QO2020 / QO2626 / QO2736	
	AT	SC	AT	SC
x-Achse	1*10-9	2*10-10	1*10-9	5*10-11
y-Achse	2*10-9	5*10-10	3*10-9	1*10-10
z-Achse	2*10-9	5*10-10	3*10-9	5*10-11
s_{max}	**2*10-9**	**5*10-10**	**3*10-9**	**1*10-10**



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