





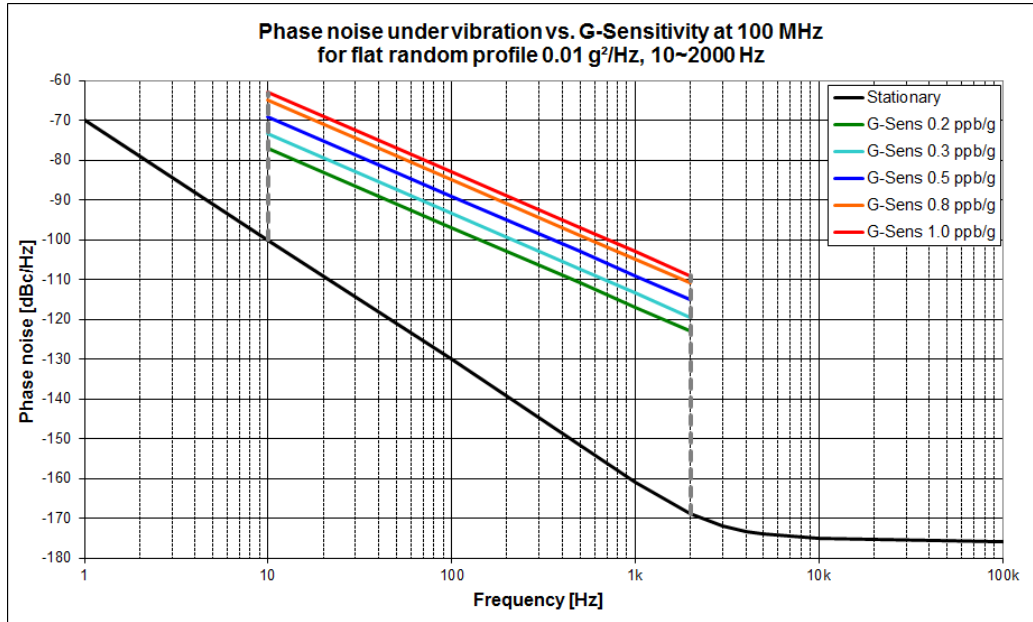


Model							
		<b>AXLE LG Series</b>	<b>AXIOM75LG</b>	<b>AXE238</b>	<b>AXIOM210</b>	<b>AXIOM220</b>	<b>AXIOM260</b>
Oscillator type		Low G-Sensitivity TCXO	Low G-Sensitivity OCXO	Vibration-Isolated SPXO	Vibration-Isolated OCXO		
Features		High mechanical shock resistance	High mechanical shock resistance	Very high random vibration levels	Best Vibration Performance	Multiplied with Dual Output Option	Legacy model
G-Sensitivity [ppb/g] *		< 0.250	0.250	0.004	0.001	0.001	0.015
Frequency range		10 ~ 50 MHz	50 ~ 125 MHz	10 ~ 150 MHz	50 ~ 150 MHz	150 ~ 450 MHz	50 ~ 150 MHz
Phase noise [dBc/Hz]	Static	-115 100 Hz -160 Floor	-135 100 Hz -175 Floor	-135 100 Hz -170 Floor	-137 100 Hz -180 Floor	-130 100 Hz -170 Floor	-130 100 Hz -165 Floor
	Vibration **	-90 100 Hz -110 1 kHz	-95 100 Hz -115 1 kHz	-90 100 Hz -150 1 kHz	-115 100 Hz -155 1 kHz	-105 100 Hz -145 1 kHz	-90 100 Hz -140 1 kHz
	@	50 MHz	100 MHz	100 MHz	100 MHz	200 MHz	100 MHz
Stability		±500 ppb	±10 to ±300 ppb	±50 ppm	±10 to ±300 ppb		
Supply voltage		3.3 V	12~15 V				
Size		5x3.2 or 7x5 mm SMD	25 x 25 x 13 mm THD	38 x 38 x 19 mm SMA / Feedthrough	50 x 50 x 30 mm SMA / Feedthrough	70 x 70 x 40 mm SMA / Feedthrough	58 x 48 x 27 mm Feedthrough

\* G-Sensitivity at 1 kHz offset    \*\* Flat random vibration profile 0.01 g<sup>2</sup>/Hz, 10~2000 Hz



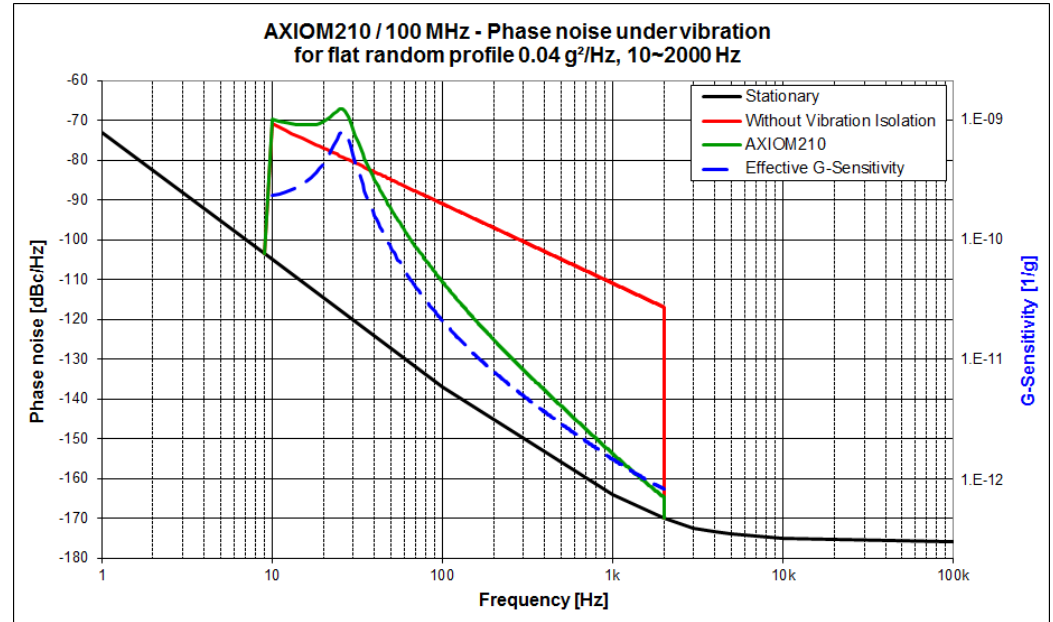
## AXIOM75LG



Phase noise under random vibration for flat profile PSD =  $0.01 \text{ g}^2/\text{Hz}$ , 10~2000 Hz

- Double PSD results in 3 dB worse phase noise
- Withstands very high vibration levels  $>1 \text{ g}^2/\text{Hz}$
- High mechanical shock resistance

## AXIOM210



Phase noise under random vibration for flat profile PSD =  $0.04 \text{ g}^2/\text{Hz}$ , 10~2000 Hz

- Withstands very high vibration levels  $>1 \text{ g}^2/\text{Hz}$  above 50 Hz
- Phase noise under vibration -155 dBc/Hz @ 1 kHz
- Isometric behaviour under vibration
- High mechanical shock resistance
- Internal vibration isolation – Insensitive to cabling

You name your vibration requirements – We compute the possible phase noise performance  
Isolation absorber systems can be designed and tailored to your application requirements

