
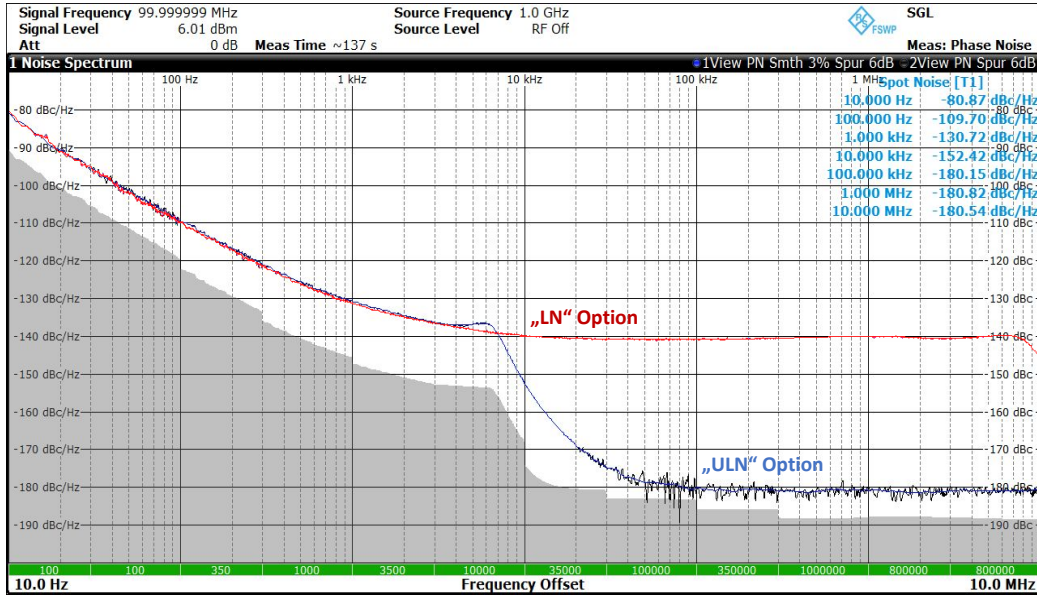


|                          |  |  |  |   |  |  |
|--------------------------|--|--|--|---|--|--|
| <b>Models</b>            |                                    |  |  |   |  |  |
| <b>Frequency range</b>   | Wide range of SMD & THD packages from <b>5x3.2 mm</b> up to <b>20x20 mm</b>  |  |  |   |  |  |
| <b>Output waveform</b>   | <b>10 ~ 50 MHz</b> (small SMD packages) / <b>5 ~ 200 MHz</b> (other packages)  |  |  |   |  |  |
| <b>Stability</b>         | CSW / Sine wave / HCMOS / PECL / LVDS  |  |  |   |  |  |
| <b>Temperature range</b> | <b>±0.05 ~ ±2 ppm</b>  |  |  |   |  |  |
| <b>Supply voltage</b>    | <b>-40°C ~ +85°C</b> (standard range) / <b>-55°C ~ +95°C</b> (wide range) / <b>-60°C ~ +125°C</b> (ultra-wide range) |  |  |   |  |  |
| <b>Special features</b>  | <b>1.8 ~ 3.3 V</b> (other voltages available on request)   |  |  |   |  |  |
| <b>Series</b>            | Very High Frequency Stability<br><b>±50 ppb</b>  | Very Wide Temperature Range<br><b>-60°C ~ +125°C</b> | Ultra-Low G-Sensitivity<br><b>&lt; 0.2 ppb/g</b> | Ultra-Low Phase Noise Floor<br><b>-180 dBc/Hz</b> | Ultra-Low Phase Jitter<br><b>10 fs</b> | New Space Application (Space COTS)<br><b>50 krad (TID)</b> |
| <b>Availability</b>      | Various AXLE Series  | AXLE <b>WT</b> Series<br>AXLE <b>LG</b> Series       | AXLE <b>LG</b> Series<br>AXLE <b>HF</b> Series   | AXLE <b>HF</b> Series                             | AXLE <b>HF</b> Series                  | AXLE <b>S</b> Series                                       |
| <b>Availability</b>      | Use of different TCXO-IC technologies and manufacturers allows good ability to deliver.                              |  |  |   |  |  |

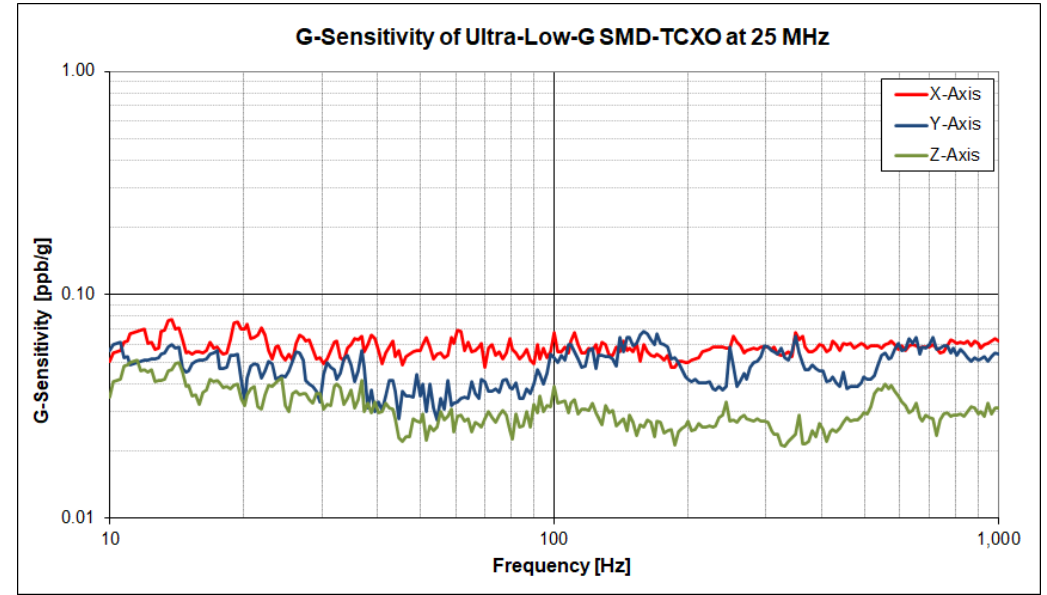


## Phase Noise HF-Series



RMS phase jitter (12 kHz ~ 20 MHz): „ULN“ Option = 10 fs – „LN“ Option = 700 fs

## G-Sensitivity



G-Sensitivity measured with flat random vibration profile of 0.1 g<sup>2</sup>/Hz

More High Frequency TCXOs see also [PLL Oscillator Modules](#) and [GHz Crystal-Controlled Oscillators](#)

