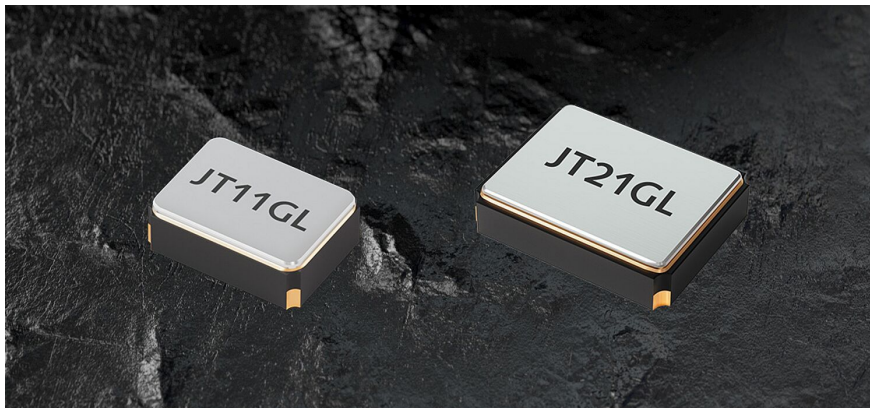




## **JT21GL(E) and JT11GL(E): two new miniature SMD TCXOs in Jauch's range of frequency products**

*Jauch has added two new miniature SMD TCXOs to its range of temperature-compensated crystal oscillators: [the JT21GL\(E\) and JT11GL\(E\)](#). These special TCXOs are particularly suitable for satellite navigation systems (GNSS) such as GPS, GLONASS, Galileo ... The miniature SMD housing enables a compact device design so that the miniature oscillators can be optimally installed in the small installation space requirements of modern radio or tracking instruments.*



Range simulation is an essential part of GNSS technology, as the distance between the satellite and the receiving antenna forms the basis for calculating the position. In order to ensure a realistic range simulation, several factors must be taken into account, such as ionospheric effects, tropospheric effects, but also errors inherent in the system, such as clock errors, which lead to inaccuracies in the time measurement and thus falsify the range calculation.

Thanks to their frequency stability of  $\pm 0.5$  ppm, the new TCXOs from Jauch ensure a precise clock over the entire operating temperature range. Both the JT11GL(E) and the JT21GL(E) are optimized for GNSS applications in terms of temperature slope and static frequency hysteresis. These features are critical to the accuracy and reliability of GNSS modules used in high performance telecommunications and networking equipment, including small cells, synchronous Ethernet and optical data transmission.

With a variable power supply from 1.2 to 1.8V, both crystal oscillators are ideal for battery-powered applications requiring navigation and positioning, such as GNSS receivers or GPS trackers.

Both crystal oscillators JT21GL(E) and JT11GL(E) are characterized by their low power consumption and are specially designed for low operating voltages from 1.2V. They are available in the standard frequencies typical for GNSS applications, such as 26.0 MHz, 38.40 MHz and 52.0 MHz, and cover two temperature ranges from  $-30^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  and  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

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