



frequency control solutions

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Engineering
Excellence



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Precision Quartz Technology

Greenray Industries is a leading supplier of high precision, quartz-based oscillators for use in wireless, wired telephony, aerospace, military, satellite, and other communications applications.

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Greenray Re-defines TCXO Performance



Greenray Industries' T1300 TCXO offers ultra-low acceleration sensitivity for vibration and shock sensitive applications. When operating under random vibration, the T1300 can offer phase noise improvements of more than 40dB compared to conventional TCXOs - and better performance than most OCXOs.

Also announced at Electronica in Munich this November, Greenray's new ANN100 TCXO takes Frequency Stability vs. Temperature performance standards and stands them right on their head. Utilizing Greenray's revolutionary Artificial Neural Network Compensated Crystal Oscillator - ANNCX-O™, for short - engineers have achieved Stability vs. Temp performance that is *orders* of magnitude better than that of conventional TCXOs and *without the power drain* of an OCXO.

T1215 SERIES TCXO OFFERS HIGH PERFORMANCE IN A RUGGED, HERMETIC PACKAGE

Greenray Industries' T1215 TCXO offers outstanding, reliable performance under high shock & vibration conditions.

The T1215 measures 9mm x 7mm x 2.8mm and features a hermetic, ceramic package with ruggedized construction. It has been designed to deliver consistent, reliable frequency control performance in high shock and vibration environments. Reduced acceleration sensitivity down to $5 \times 10^{-10}/g$ is available for improved phase noise performance during vibration and acceleration.

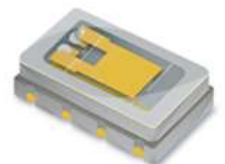
The T1215 offers a wide range of available frequencies, from 750kHz to 800MHz, and a choice of CMOS, LVPECL or LVDS outputs. Supply voltage is 3.3V or 5V. A miniature, high precision AT strip crystal enables extremely smooth and repeatable frequency performance over temperature and time.



T52 SERIES TCXO OFFERS TIGHT STABILITY FOR DEMANDING APPLICATIONS

Greenray Industries, Inc. has introduced the T52 Series TCXO. Measuring just 5mm x 3.2mm x 2mm, the T52 Series temperature compensated crystal oscillator has been developed as a reference oscillator for critical timing applications that demand a small footprint.

The T52 performs under high shock and vibration and extreme acceleration conditions, requires very low current, and offers Clipped Sinewave or CMOS outputs. The T52 Series TCXO has been designed to serve a broad range of markets including Smart Munitions, GPS, Mobile Radio, SONET, WiMAX, WLAN, Stratum 3 and Femtocell.



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