

Q-Tech's New AXTAL OCXOs Provide Combination of Ultra-Low Noise & Radiation Hardness Required for New Space Applications

Ultra-low noise performance; radiation hardness up to 50kRad TID; SEL immunity and SET insensitivity critical for LEO applications; OCXO ppb stability.

CYPRESS, CA, UNITED STATES, April 9, 2024 /EINPresswire.com/ -- [Q-Tech Corporation](#), a leading global supplier of space-qualified crystal oscillators and high-performance frequency control systems, introduces an advanced oven-controlled crystal oscillator (OCXO) Series for New Space applications.



Today's low-earth orbit applications require lower cost, commercial off-the-shelf (COTS) products that offer proven state-of-the-art performance and radiation hardness."

Henry Halang, Managing Director, AXTAL GmbH

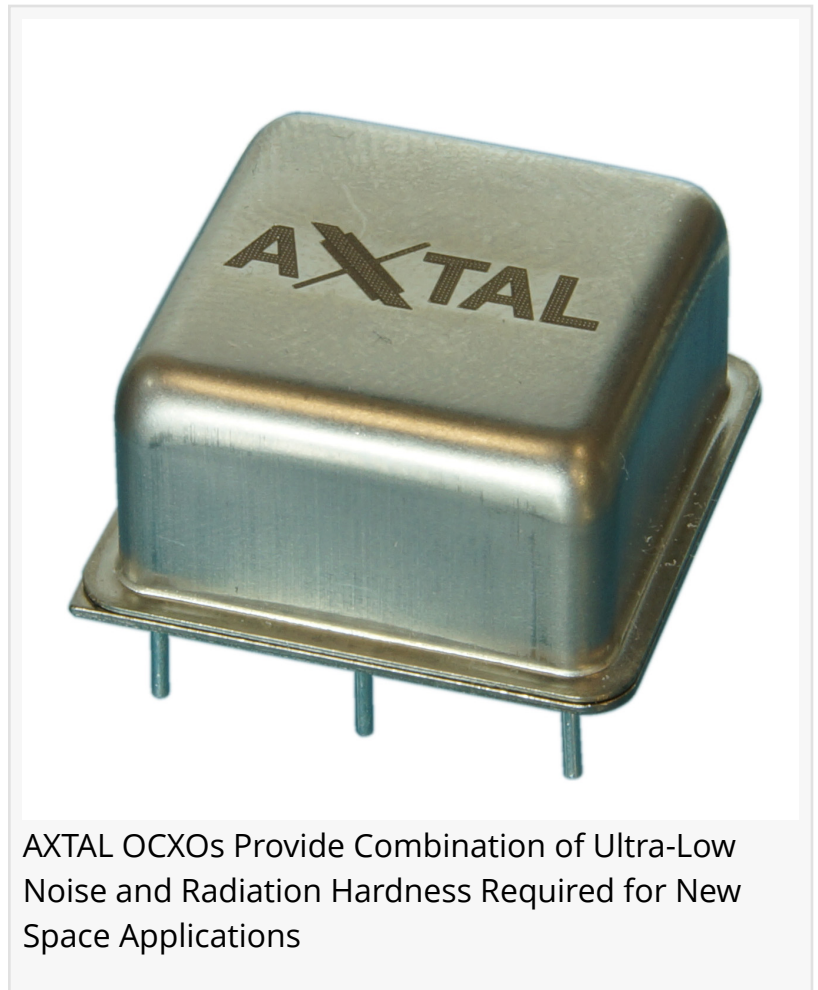
Designed by the company's German affiliate, [AXTAL](#), the AXIOM75Sx Series features both ultra-low phase noise (close-in and noise floor) and the radiation hardness required for high-performance low-earth orbit (LEO) satellite timing and frequency generation applications. Available for the frequencies of 10MHz (AXIOM75SL) and 50-400MHz([AXIOM75SH](#)), these devices deliver low phase

noise and noise floor down to -180dBc/Hz. Testing and screening to specific customer requirements is offered and swept crystal versions are available.

Key features of the AXIOM75Sx Series are radiation tolerance to 50 kRad(Si) TID, single event latch-up (SEL) immunity (by design), single-event transient (SET) insensitivity, exceptional frequency stability, over temperature (< ±50 ppb) and phase noise floor of -180dBc/Hz (at ≥100 kHz offset). The wide available frequency range from 10-400 MHz covers many potential applications. The OCXOs are packaged in hermetically sealed enclosures.

"Today's low-earth orbit applications require lower cost, commercial off-the-shelf (COTS) products that offer proven state-of-the-art performance and radiation hardness," said Henry Halang, AXTAL's Managing Director. "The AXTAL New Space AXIOM75Sx Series provides industry-leading phase noise and radiation tolerance in a high-stability OCXO package."

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