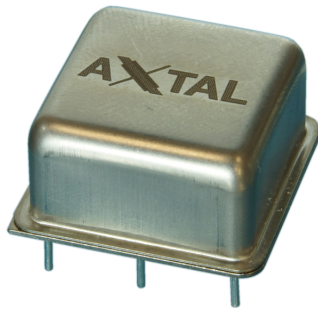


Q-Tech's New AXTAL OCXOs Provide Combination of Ultra-Low Noise and Radiation Hardness Required for New Space Applications

State-of-the-art ultra-low noise performance enables high up- and down-link satellite bandwidths; radiation hardness up to 50kRad TID; SEL immunity and SET insensitivity critical for LEO applications; OCXO ppb stability.

Cypress, CA—April 9, 2024 — [Q-Tech Corporation](#), a leading global supplier of space-qualified crystal oscillators and high-performance frequency control systems, introduces



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an advanced oven-controlled crystal oscillator (OCXO) Series for New Space applications. 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.”

Availability: Now
Delivery: Consult Factory
Price: Consult Factory

About Q-Tech

[Q-Tech Corporation](#) was founded in 1972 with the objective of providing state-of-the-art crystal clock oscillators and frequency control solutions for companies with demanding applications. As the leading U.S. manufacturer of qualified products to MIL-PRF-55310 as well as ultra-high reliability standards such as Aerospace Corporation TOR (GPS III) and NASA GSFC specifications, Q-Tech proudly services the military, aerospace, down-hole and deep space industries. Q-Tech is certified to the AS9100 and ISO 9001 Quality Management Systems. The Company maintains a global presence with sales capabilities throughout North America, Europe, and Asia. In early 2023, Q-Tech completed the acquisition of Axtal GmbH & Co KG. The Axtal acquisition integrates the company's products, European-based engineering development and ISO9001:2015 manufacturing facilities.

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