

AXTAL Ultra-Low Noise OCXOs Fill Performance Need in Critical Systems

AXIOM Series ULN OCXOs up to GHz frequencies provide ppb stability, ultra-low close-in phase noise and noise floor; deliver essential performance for radar systems, communications and RF measurement systems

Cypress, CA—October 5, 2023 — [Q-Tech Corporation](#), a leading global supplier of space-qualified crystal oscillators and high-performance frequency control systems,



announces the availability of the AXIOM line of ultra-low noise (ULN) oven-controlled crystal oscillators (OCXOs) designed and manufactured by the company's German affiliate, AXTAL. Ultra-low close-in phase noise and noise floor enable higher resolution for radar systems, better quality and more transmissible information in communications systems and higher accuracy and lower measurement limits in RF measurement systems. Customized versions are available offering specific frequencies and modules with multiple outputs.

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The [AXIOM145ULN](#) is well suited for communications systems and RF measurement systems that typically require 10 MHz OCXOs. The unit features frequency over temperature stability of 5 to 20 ppb; close-in phase noise of <-115 dBc/Hz @ 1 Hz offset and a noise floor of <-170 dBc/Hz @ ≥ 100 kHz.

Radar and other similar applications require frequency generation from MHz to GHz. The [AXIOM75ULN](#) and [AXIOM5050ULN](#) (80 to 160 MHz) and multiple output [AXIOM2700](#) (50 MHz to 7.0 GHz) are well suited for these applications, offering close-in phase noise of <-140 dBc/Hz @ 100 Hz offset, and noise floors down to -185 dBc/Hz, respectively (at 100 MHz carrier frequency).

“AXTAL not only offers ULN OCXOs operating over broad frequency ranges, but entire custom modules, which generate GHz signals using frequency multiplication and/or phase-locked loop (PLL) techniques,” said Henry Halang, AXTAL's Managing Director. “These modules are fully customizable providing customers with maximum design flexibility.”

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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