

Innovation

Quality

Service



STATEKTM

Quartz Crystals, Oscillators & Sensors

35 Years of Leadership in Frequency Control



Welcome to Statek

In 1970, Statek Corporation pioneered the miniaturization of quartz timing elements to revolutionize the frequency control industry. Today, Statek continues the tradition of innovation as a technological leader in the design and manufacture of ultra-miniature quartz crystals, oscillators and sensors. Since its inception, Statek has been synonymous with innovation, service and quality. All products are designed, manufactured and tested in the United States.

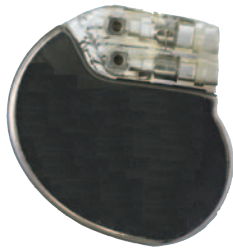
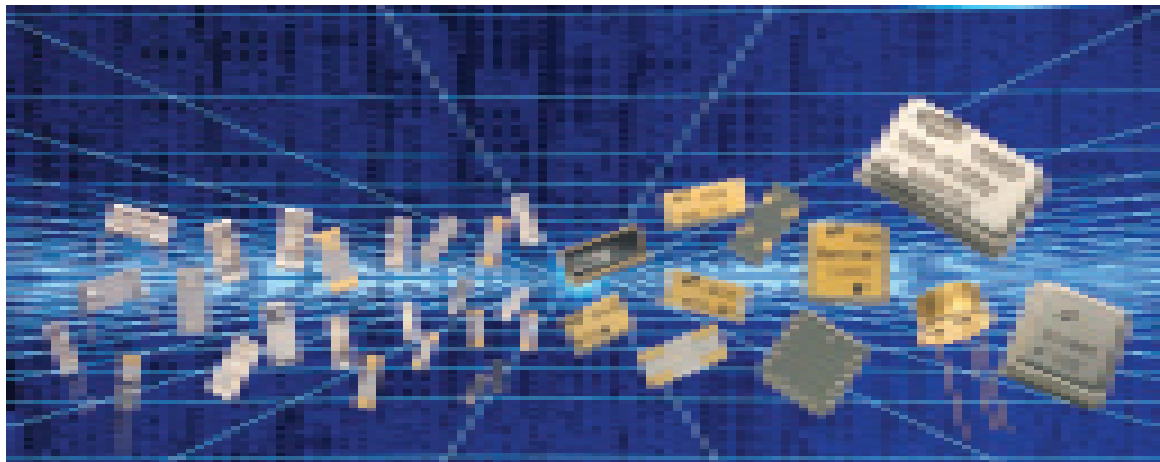
Statek’s mission is to offer customers a broad line of leading edge, ultra-miniature quartz frequency control devices and to provide solutions via knowledgeable applications support, excellent customer service and superior product quality.

Product Overview

Statek offers a comprehensive range of quartz crystals, oscillators and sensors in both surface mount and leaded configurations.

Statek’s innovative design and manufacturing processes can support the most demanding applications. Photolithographic micromachining and ceramic packaging expertise allows us to offer a frequency range from 0.00001 Hz to 250 MHz, the broadest industry offering for crystals and oscillators. Statek provides a variety of standard products as well as full custom designs to meet special requirements such as:

- Low g Sensitivity
- Tight Tolerance
- Radiation Resistance
- High-shock
- Low-aging
- Wide Temp Range



Statek is the leading supplier to the implantable medical device market.



Radiation-resistant crystals ensure long life in space-based applications.



Our ultra-miniature and high-shock crystals are ideal for process control applications.

Markets Served

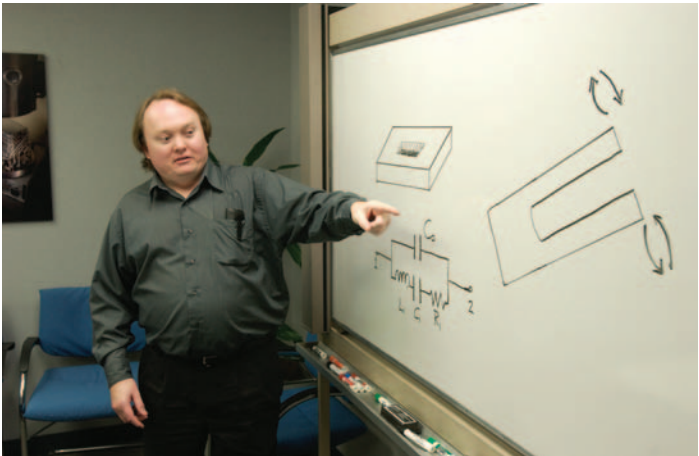
Statek continues to focus on developing long-term relationships with companies using its specialty products. Statek is a highly respected supplier to many markets, including:

- Medical
- Avionics
- Military
- Industrial

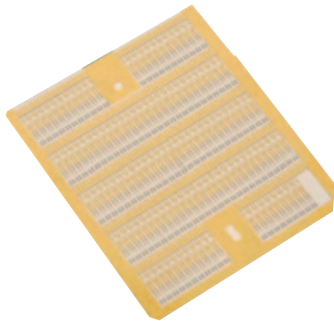
Design Capabilities

With over a century of combined experience in the disciplines of physics, chemistry, mechanical and electrical engineering, there is no project too challenging for Statek’s research and development team.

Our custom-designed finite element analysis software enables us to model device behavior prior to building the physical prototype. Our extensive design and process library allows us to leverage our past successes into your new product requirements. Statek has the expertise to design and analyze a quartz resonator for all of the mechanical geometries in their various operating modes.



Dr. Greg Burnett, Senior R&D Product Manager



Array of quartz resonators in wafer form.

Finite Element model of a tuning fork crystal.

In-house Manufacturing



Statek's process begins with ultra-pure, synthetically-grown Alpha quartz or swept quartz for radiation-sensitive applications.



The ability to seal parts with a glass lid allows Statek to adjust frequency after assembly to produce extremely accurate and stable products.



Quartz bars are lumbered, sliced and lapped. Wafers for special applications are further polished to an optical finish.



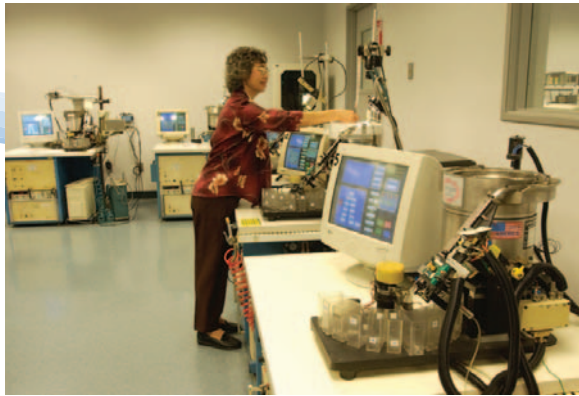
Custom built automated equipment precisely assembles crystal resonators.



Both laser trimming and wafer backplating allow Statek to achieve tight frequency tolerance of crystals while in wafer form.



Wafers are processed into arrays of various quartz resonators.



Statek uses automated work stations to measure accurately device parameters from wafer probe through final test.



Statek offers conventional tape and reel and tray pack in addition to customized packaging options.

The Statek Advantage

Benefitting from strategic relationships with domestic suppliers, Statek starts with only the highest quality materials. Statek continues to advance quartz crystal manufacturing technology by applying proprietary micro-machining, laser frequency adjustment and high-temperature hermetic sealing techniques.

From the initial cutting of quartz to final assembly, Statek has all of the in-house technology necessary to manufacture high-precision, ceramic-packaged crystals, oscillators and sensors. Our variable-size batch processing permits a balance between production efficiencies and supporting a high mix of standard and custom devices.

Testing

Statek uses best-in-class device measurement equipment operated by highly-trained staff. We offer a wide range of testing capabilities based on both internal and customer-specified testing protocols to ensure that all products meet or exceed the customer's electrical, mechanical and environmental requirements. For military products, Statek offers MIL-PRF-3098 and MIL-PRF-55310 Product Level B standardized testing protocols.



Industry-leading Service and Quality



Dr. Wasfi Attalla, Director of Quality Assurance.

Customer Service

Statek is devoted to superior customer service. Its professional team assists customers every step of the way, from project inception to order fulfillment. Highly-trained professionals are available to assist with all inquiries, from technical questions to design recommendations for standard and specialized products. In addition, they provide timely advice on standard and custom test protocols.

To facilitate the sales process, Statek uses the latest automated order management systems.

Statek Quality

To attain the high level of product consistency and quality demanded by its customers, Statek relies on the ISO - QMS 9001:2000 process approach model in managing all processes and plans for Continuous Improvement activities leading to total customer satisfaction.

Attention to detail, dedication to quality and customer service have earned Statek “preferred supplier” awards and recognition by top companies.

Continuity

Statek has for over 35 years offered the continuity of support required for long-term medical, military, avionics and industrial programs. We maintain a complete record and traceability of every product we make. For custom designs, Statek is committed to supporting your product life cycle. With two manufacturing locations, we also provide production redundancy with an established Business Continuity Plan providing quick recovery in the event of an untimely occurrence.

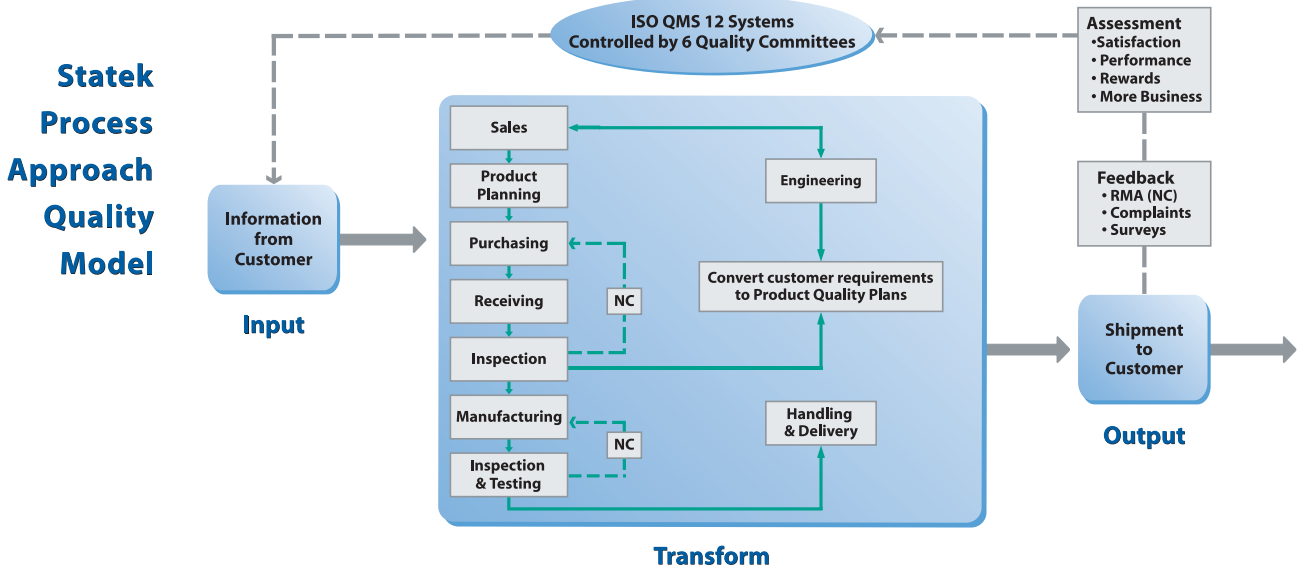
Environmental Policy

Statek is strongly committed to a “good neighbor” policy and actively works to minimize the impact of production operations on the environment. Statek conforms to all applicable local and federal environmental requirements.

For 35 years, Statek has offered “lead free” products and is actively supporting Reduction of Hazardous Substances goals.



Earl Burnett, one of Statek’s original founders, and Dr. Shih Chuang, Chief Operating and Chief Technical Officer, continue to drive innovation at Statek. Dr. Chuang has received numerous coveted awards for his dedication and scientific contributions to the piezo devices and frequency control industry.



For frequency control applications where reliability counts, Statek has the answers.



512 N. Main Street



1449 Orange Grove



Great Answers for Quartz Crystals, Oscillators & Sensors

All products made in the U.S.A.

512 N. Main St. | Orange, CA 92868 | 714.639.7810 | Fax: 714.997.1256 | www.statek.com