

## Protec GmbH is proud to announce extended cooperation with Q-Tech in DACH, Belgium and the Netherlands.

### LEADING THE WAY IN CRYSTAL OSCILLATOR TECHNOLOGY

World's leading supplier of crystal oscillators for Space, Military, Avionics & HighTemp. XOs, TCXOs, VCXOs, OCXOs, SAWs, MCXOs, High-Temperature & High-Shock Oscillators. A leader in low-phase noise crystal oscillators including OCXOs, TCXOs and SAWs.



### MILITARY AND AVIONICS APPLICATIONS

Q-Tech provides state-of-the-art hybrid crystal oscillators for high reliability military, aerospace, down-hole and deep space applications. We offer a complete oscillator and crystal manufacturing capability ranging from standard clock oscillators to RAD hard space rated XO's, TCXO's, OCXO's and SAW oscillators. All of Q-Tech's products meet our very high standards of design, quality, on-time delivery and superb customer service. We are committed to providing our customers with leading edge frequency control solutions.



Q-Tech Corporation is offering a new line of miniature oscillators available in 2.5 x 3.2mm, 3.2 x 5mm, and 5 x 7mm packages. Available across multiple configurations (XO, TCXO, VCXO) and logic types (CMOS, PECL/LVDS, Clipped Sine), these miniature oscillators will provide Q-Tech customers with the smallest options offered yet across the military temperature range of -55C to +125C. In addition, many standard frequencies of XOs are in-stock allowing for our lowest lead-time offerings for our most often ordered frequencies.

### HIGH TEMPERATURE APPLICATIONS

Q-Tech the leader for high temperature crystal oscillators for downhole and jet engine control applications. Our high temperature products have all been rigorously qualified and are tested to the highest standards. We continue to push the state of the art to smaller size packages, lower power and current requirements, and Real Time Clock modules. The difference between our products and our competitors' is in our outstanding reliability, performance and quality.



- General High Temperature Product Offerings
- 5x7mm High Temperature including 4-point mount
- 5x7mm 32.768kHz Oscillator +200°C for Real Time Clock
- 5x7mm 32.768kHz Oscillator, extreme low current for RTC
- Real Time Clock SPI QT1123L, extreme low current
- Real Time Clock I2C QT2024L, extreme low current

### Protec GmbH

Rosenheimer Landstraße 117  
83229 Ottobrunn- Riemerling

eMail: [sales@protec-semi.de](mailto:sales@protec-semi.de)  
Web: <http://www.protec-semi.de>