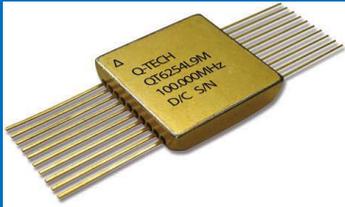


SPACE COMPONENTS NEWSLETTER Mai 2020

Other Unique Parts from Q-Tech:

Space Multiple Output CMOS Oscillator

Q-Tech QT625xL/QT625xN with up to 4 CMOS outputs in a single package save valuable space and cost; hermetically-sealed, 100k kRad(Si)-tolerant oscillators meet MIL-PRF-38534 Class K requirements.



Q-Tech Space-Qualified Multi-Output LVDS Hybrid Oscillators

Q-Tech QT625LW & QT697LW series with up to 12 LVDS differential pairs in a single package save valuable space and cost; hermetically-sealed, 100k kRad(Si)-tolerant oscillators meet MIL-PRF-38534 Class K requirements, combine good shock and vibration resistance with very low phase noise



Protec GmbH

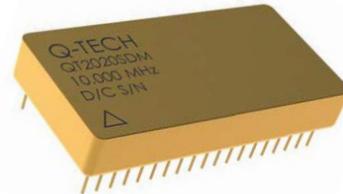
Rosenheimer Landstraße 117
85521 Ottobrunn-Riemerling

eMail: sales@protec-semi.com
Web: http://www.protec-semi.com

MCXO (Microcomputer Compensated Crystal Oscillator) Low Power @ OCXO performance

Q-Tech's MCXO [QT2020](#), uses a high stability overtone SC-cut crystal with microprocessor controlled compensation. The self-temperature sensing resonator, using a dual-mode oscillator, virtually eliminates thermometry related errors. As a result, all basic TCXO and OCXO limitations are overcome or significantly reduced in the MCXO.

RadHard OCXO performance with 90mW maximum power consumption!



Features

- ECCN: EAR99
- Temperature Stability: $\pm 10\text{ppb}$ to $\pm 30\text{ppb}$ over temperature
- Maximum aging: $\pm 1.5\text{ppm}$ over 20 years
- DC Power Input: 3.3Vdc, 90 milli watts max.
- Initialization: <5 seconds from power on to full performance
- High reliability signal generator that provides Sine wave or HCMOS output
- Designed to withstand radiation up to 50kRad TID, high shock, and vibration
- Outputs: 5 to 100MHz, 32.768kHz and 1PPS. Other frequency options available
- Capability to lock to GPS at 1PPS or 10MHz
- Environmental: Inherently rugged design capable of full military screening
- Low Phase Noise and Jitter
- Small Form Factor
- G-Sensitivity 1PPB/G maximum
- Consult factory for additional or tighter specifications

Electronic Component Exemption

- Technology has 30 year heritage in high reliability military applications

Ordering Information

(Sample part number)

QT2020CBM-10.000MHz

