

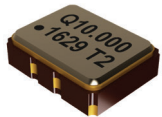


Crystal Oscillators for High Temperature Applications

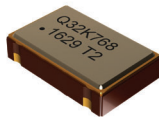
Downhole and other high temperature and high shock environments require crystal oscillators designed and packaged to perform reliably in harsh and inaccessible locations. Q-Tech's High Temperature XO's are an ideal choice for use in extreme applications.

Ultra-Miniature High Temperature XO's

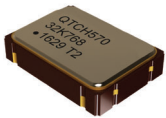
Q-Tech's ultra-miniature, high temperature XO's provide the combination of high performance and small packaging demanded in constrained space, harsh environments.



QTCH230



QTCH350

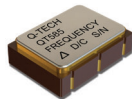


QTCH570

Product Line	QTCH230	QTCH350	QTCH570
Frequency	32.768kHz, 1 to 48MHz		
Stability	±150 to ±250ppm		
Temperature Range	-55°C to 200°C		
Crystal Mount	2-point		
Screening	MIL-PRF-55310, Level B available		
Supply Voltage (Vdc)	1.8, 2.5, 3.3	1.8, 2.5, 3.3, 5.0	
Output	CMOS		
Size	2.5 x 3.2 mm	3.2 x 5.0 mm	5.0 x 7.0 mm

Ultra Low Current, High Temperature XO's

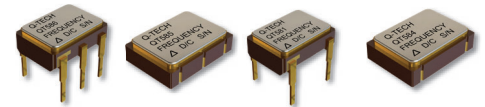
Q-Tech's ultra-low current XO's offer the ideal solution in high temperature applications with limited battery power.



Product Line	QT58x / QT59x
Frequency	32.768kHz
Stability	±150 to ±250ppm
Temperature Range	-55°C to 200°C
Current (max)	0.7mA
Crystal Mount	2-point or 4-point
Screening	MIL-PRF-55310, Level B available
Supply Voltage (Vdc)	2.5, 3.3
Output	CMOS
Size	SMT or Thru-Hole (see specs)

High Shock, High Temperature XO's

Q-Tech's high shock XO's deliver reliable performance in demanding applications.



Product Line	Custom
Frequency	1 to 100MHz
Stability	±175 to ±450ppm
Temperature Range	-55°C to 225°C
Shock (half sine, 0.1ms)	10,000 G (standard) / 20,000 G (optional)
Crystal Mount	2-point (standard) / 4-point (optional)
Screening	MIL-PRF-55310, Level B available
Supply Voltage (Vdc)	1.8, 2.5, 3.3, 5.0
Output	CMOS, TTL
Size	SMT: 5x7, 7x9, 9x14 mm / Thru-Hole (see specs)