



HIGH TEMPERATURE OSCILLATORS

32.768 kHz

High Stability/Fast Start-up/High Shock

DESCRIPTION

For **high temperature**, high stability and fast start-up applications, Statek offers the AT crystal-based 32.768 kHz CXOMKHT and CXOXHT oscillators. These oscillators are designed to operate at temperatures up to 200°C. A high-shock version is also offered that features 30,000 g shock survival. Other features include fast start-up time (0.8 ms typical) and low current operation (500 μ A at 25°C.)

FEATURES

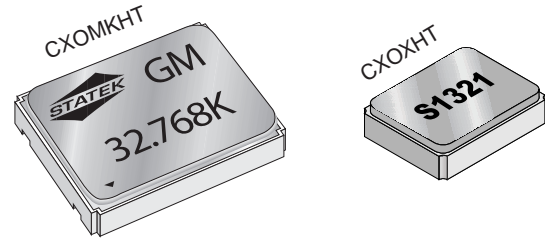
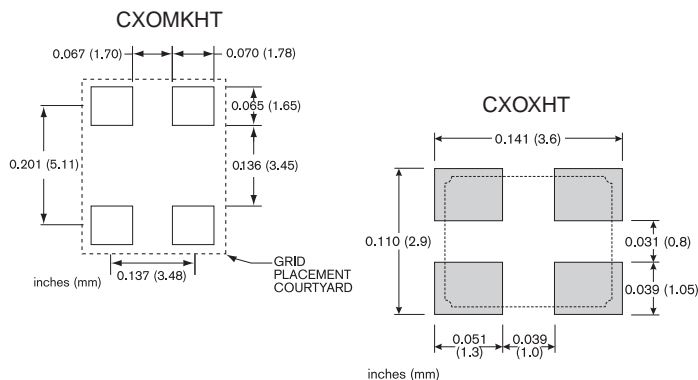
- High temperature operation up to 200°C
- Overall 5 times improvement in total frequency stability when compared to a typical tuning fork design
- A High-Shock version that features 30,000 g shock survival
- Excellent frequency stability over temperature range
- Fast start-up
- CMOS and TTL compatible
- Optional output enable/disable
- Low current
- Hermetically sealed ceramic package
- Full military testing available

APPLICATIONS

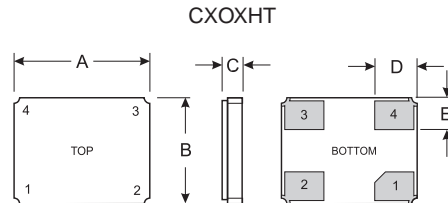
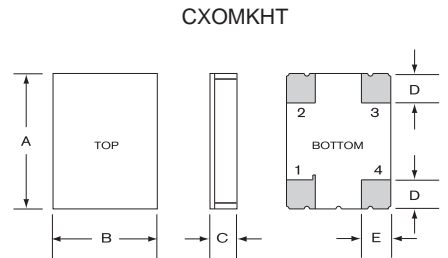
Industrial

- Downhole instrumentation
- Rotary shaft sensors
- Underground boring tools

SUGGESTED LAND PATTERN



PACKAGE DIMENSIONS



DIM	CXOXHT		CXOMKHT	
	MAXIMUM		MAXIMUM	
	inches	mm	inches	mm
A	0.136	3.40	0.263	6.68
B	0.107	2.70	0.204	5.18
C (SM1)	0.053	1.36	0.060	1.52
C (SM3/SM5)	0.058	1.48	0.065	1.65
D	0.041	1.10	0.065	1.65
E	0.031	0.85	0.070	1.78

PIN CONNECTIONS

1. Enable/Disable (E) or No Connection (N)
2. Ground
3. Output
4. V_{DD}

