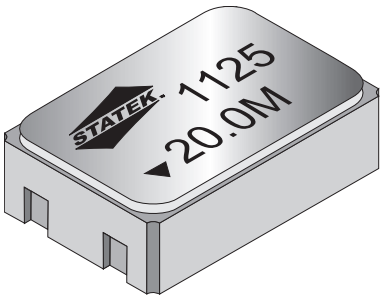
HGXOHT OSCILLATOR

32.768 kHz

High Shock, High Temperature Crystal Oscillator

DESCRIPTION

For **high temperature**, high stability and fast start-up applications, Statek offers the AT crystal-based 32.768 kHz HGXOHT oscillator. This oscillator is designed to operate at temperatures up to 200°C. A high-shock version is also offered that features 100,000 g shock survivability. Other features include fast start-up time (0.8 ms typical) and low current operation (500 µA at 25°C.)



FEATURES

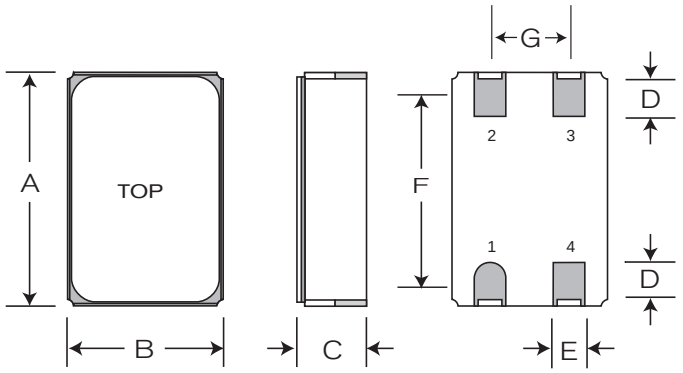
- Mechanical shock survivability up to 100,000 g
- High temperature operation up to 200°C
- Overall 5 times improvement in total frequency stability when compared to a typical tuning fork design
- Excellent stability over temperature
- Fast start-up
- CMOS output
- Optional output enable/disable
- Low current
- Hermetically sealed ceramic crystal package (Double Hermetic Seal)

APPLICATIONS

Industrial

- Downhole instrumentation
- Rotary shaft sensors
- Underground boring tools

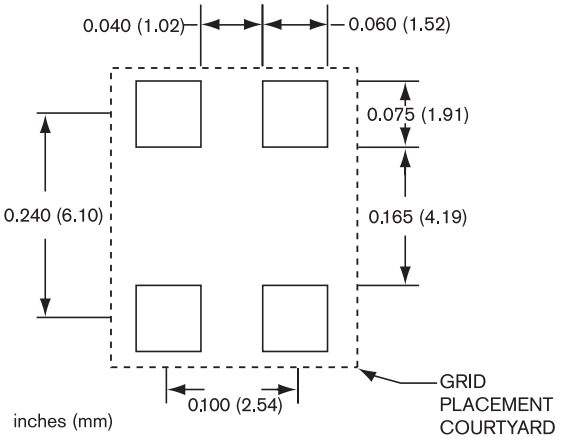
PACKAGE DIMENSIONS



	TYPICAL		MAXIMUM	
DIM	inches	mm	inches	mm
A	0.295	7.50	0.302	7.68
B	0.197	5.00	0.204	5.18
C*	0.089	2.25	0.098	2.50
D	0.055	1.40	-	-
E	0.040	1.02	-	-
F	0.240	6.10	-	-
G	0.100	2.54	-	-

*SM1 (Termination material is Au over Ni over W). Solder dip (SM5) also available.

SUGGESTED LAND PATTERN



PIN CONNECTIONS

1. Enable/Disable (E) or not connected (N)
2. Ground
3. Output
4. V_{DD}