

LSM OSCILLATOR

30 kHz to 400 kHz

Low Power Surface Mount Crystal Oscillator

DESCRIPTION

The LSM oscillator is an ultra-low current quartz crystal oscillator with a typical start-up time of 500ms. The design consists of a STATEK crystal, and a CMOS-compatible integrated circuit. The hybrid design is hermetically-sealed with a kovar lid in a surface mount ceramic package. Permanent precision tuning of the oscillator is accomplished by laser trimming the crystal.

FEATURES

- Ultra-low power consumption
- Typical start-up time of 500ms
- Typical rise and fall times of 25ns
- Hermetically sealed ceramic package
- Optional output enable/disable with Tri-State
- Full military testing per MIL-PRF-55310 available
- Designed, manufactured, and tested in the USA
- 3.3 volt operation available

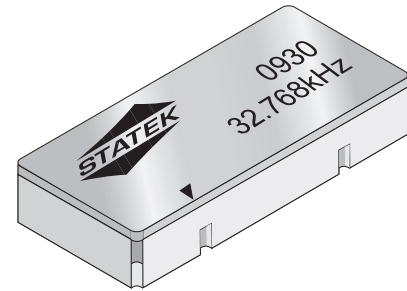
APPLICATIONS

Industrial, Computer & Communications

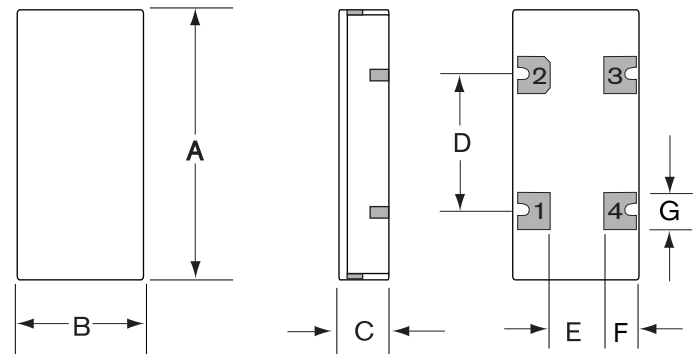
- General purpose clock oscillator
- Data logger
- Remote sensor
- Real time clock
- Medical test and diagnostics

Military

- Portable field communication
- Military high speed modem
- Flight recorder



PACKAGE DIMENSIONS



DIM	TYPICAL		MAXIMUM	
	inches	mm	inches	mm
A	0.400	10.16	0.405	10.29
B	0.180	4.57	0.185	4.70
C*	0.071	1.80	0.079	2.00
D	0.200	5.08	0.205	5.21
E	0.080	2.03	0.085	2.16
F	0.050	1.27	0.058	1.47
G	0.055	1.40	0.063	1.60

Termination material is Au over Ni (SM1), solder dip (SM3) also available.

*SM1 Termination; SM3 = 0.084 in. (2.13mm) Max.

SUGGESTED LAND PATTERN

