

## DESCRIPTION

The CXOXLAT 32.768 kHz oscillator achieves the low power comparable with a tuning fork design and the fast start-up and tight frequency stability attained by an AT cut crystal design. Designed for applications requiring ultra-low current (15  $\mu$ A), fast start-up time (15 ms), and a tight frequency stability ( $\pm 30$  ppm to  $\pm 100$  ppm) over a wide temperature range ( $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ ). These oscillators are also capable of withstanding significantly higher shock than a standard tuning fork design.

## FEATURES

- Ultra-low current (typical 15  $\mu$ A)
- Fast start-up (typical 15 ms)
- Tight tolerance
- High shock resistance
- Low aging
- CMOS output
- Optional Output Enable/Disable with Tri-State
- Hermetically sealed ceramic package
- Full military testing available
- Designed and manufactured in the USA

## APPLICATIONS

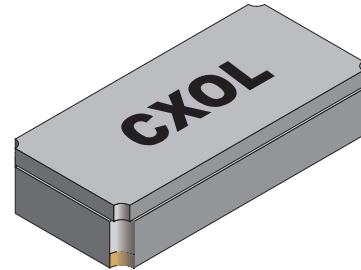
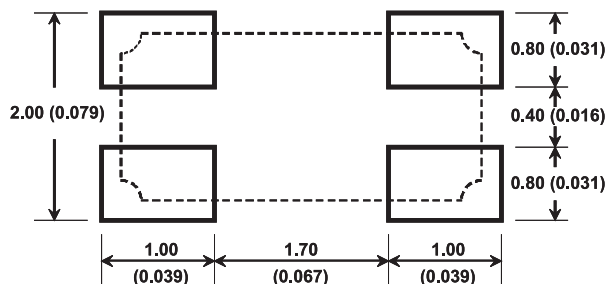
### Military, Aerospace & Avionics

- Communications
- Navigation
- GPS

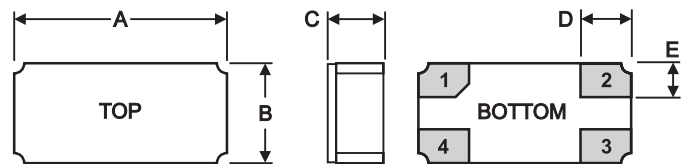
### Industrial, Computer & Communications

- Handheld instrumentation
- Transponder/Animal migration

## SUGGESTED LAND PATTERN



## DIMENSIONS



DIM	TYPICAL		MAXIMUM	
	inches	mm	inches	mm
A	0.126	3.20	0.130	3.30
B	0.059	1.50	0.063	1.60
C (SM1)	0.037	0.95	0.039	1.00
D	0.029	0.75	0.030	0.77
E	0.020	0.50	0.021	0.52

## PIN CONNECTIONS

1. Output
2. Ground
3. Output Enable/Disable (E) or no connection (N)
4.  $V_{DD}$

