

CXOXULPHT OSCILLATOR 32,768 kHz

High Temperature/Ultra-Low Power/Fast Start-Up/High Shock

DESCRIPTION

The CXOXULPHT 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 ultralow current (55 μA), fast start-up time (2 ms), and a tight frequency stability (200 ppm) for high temperature operation up to +200°C. These oscillators are also capable of withstanding significantly higher shock than a standard tuning fork design.



- High temperature operation up to +200°C
- Ultra-low current (typical 55 μA)
- Fast start-up (typical 2 ms)
- High shock resistance up to 10,000 g
- Low aging
- CMOS output
- Optional Output Enable/Disable with Tri-State
- Low EMI emission
- Hermetically sealed ceramic package
- Full military testing available
- Designed and manufactured in the USA

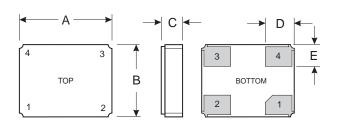
APPLICATIONS

Industrial

- Downhole instrumentation
- Rotary shaft sensors
- Underground boring tools



DIMENSIONS



	TYPICAL		MAXIMUM	
DIM	inches	mm	inches	mm
Α	0.126	3.20	0.136	3.40
В	0.099	2.50	0.107	2.70
C (SM1) C (SM3/SM5)	0.039 0.044	1.00 1.12	0.043 0.048	1.09 1.21
D	0.040	1.00	0.041	1.10
Е	0.030	0.75	0.031	0.85

PIN CONNECTIONS

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

SUGGESTED LAND PATTERN

