

FEATURES

- High temperature operation up to 225°C
- Excellent stability over temperature
- Fast start-up
- High shock resistance
- CMOS/TTL compatible output
- Low EMI emission
- Hermetically sealed ceramic package



DESCRIPTION

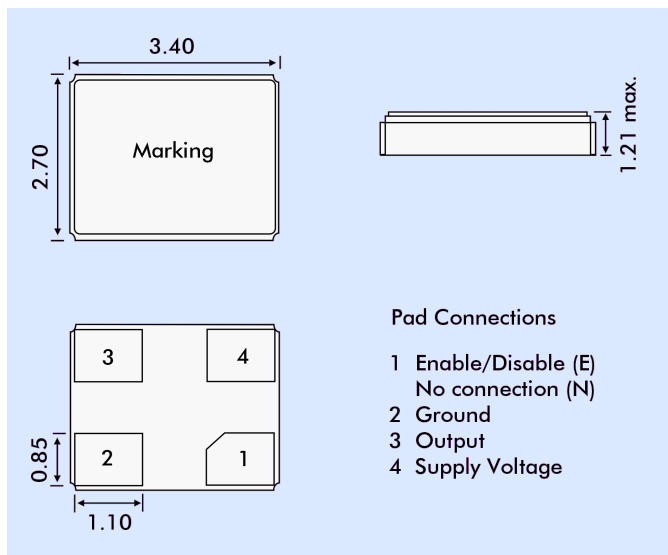
For applications with high operating temperatures such as downhole instrumentation, rotary shaft sensors and underground boring tools.

SPECIFICATION

Specifications are typical at 25°C unless otherwise indicated. Tighter specifications are available, contact Euroquartz technical sales.

Supply Voltage:	+3.3 or +5.0Volts ±10%	
Calibration Tolerance:	±50ppm or tighter as reqd.	
Frequency Stability		
25° ~ +150°C:	±100ppm	
25° ~ +175°C:	±150ppm	
25° ~ +225°C:	±175ppm	
Supply Current (Typical)	3.3V	5.0V
24MHz:	3.0mA	8.0mA
32MHz:	5.0mA	10.0mA
50MHz:	6.0mA	14.0mA
Output Load (CMOS):	15pF	
Start-up Time:	5ms max.	
Rise/Fall Time:	10ns typical	
Duty Cycle:	60/40%	
Ageing first year:	±5ppm max. at 25°C	
Ageing:	±100ppm max. at 200°C	
Shock Survival		
Standard:	3,000g, 0.3ms, ½ sine	
HG version:	10,000g, 0.3ms, ½ sine	
Vibration Survival:	20g, 10~2000Hz swept sine	
Operating Temp. Range:	-55°C to 225°C	

OUTLINE & DIMENSIONS



PACKAGING OPTIONS

CCXOXHT oscillators are available either tray packed <250pcs, or tape and reel >250 pieces.
16mm tape, 178mm or 330mm reels (EIA 418).

ENABLE/DISABLE OPTIONS (E/N)

CXOXHT oscillators have two enable/disable options, designated E & N. The E version has a tristate output and stops oscillating internally when the output is placed in a high Z state. The N version does not have the control pin, Pin1, connected internally so there is no enable/disable function with this option.

ENABLE/DISABLE OPTION E - FUNCTION TABLE

	Enable (Pin1 High*)	Disable (Pin 1 Low)
Output	Frequency Output	High Z state
Oscillator	Oscillates	Stops
Current	500µA @25°C	3.2µA @25°C

*When Pin 1 is allowed to float it is held by an internal pull-up resistor

HOW TO ORDER CXOXHT OSCILLATORS

