

# **EURO QUARTZ** CXOXHT HIGH TEMPERATURE OSCILLATORS

# **High Temperature/High Shock**

1.0MHz to 50.0MHz

### **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. Designed and manufactured in USA by Statek Inc.

### **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 Stabil	ity		
	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):		15p <b>F</b>	
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, 0.3	3ms, ½ sine

20g, 10~2000Hz swept sine

-55°C to 225°C

### **PACKAGING OPTIONS**

Operating Temp. Range:

Vibration Survival:

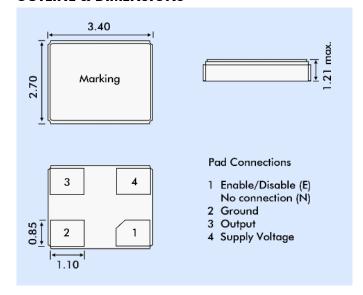
CCXOXHT oscillators are available either tray packed <250pcs, or tape and reel >250 pieces.

16mm tape, 178mm or 330mm reels (EIA 418).

# STATEK



### **OUTLINE & DIMENSIONS**



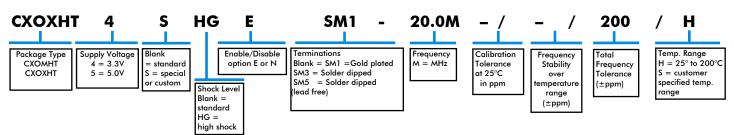
## **ENABLE/DISABLE OPTIONS (E/N)**

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) Frequency Output High Z state Output Oscillator Oscillates Stops 500μA @25°C 3.2µA @25°C Current

### **HOW TO ORDER CXOXHT OSCILLATORS**



<sup>\*</sup>When Pin 1 is allowed to float it is held by an internal pull-up resistor