

FEATURES

- High shock survivability
- High frequency stability
- Low acceleration sensitivity (HG version)
- CMOS and TTL compatible
- Low power consumption
- Full military testing per MIL PRF 55310 available
- Optional enable/disable
- Low EMI emission
- Hermetically sealed ceramic package



DESCRIPTION

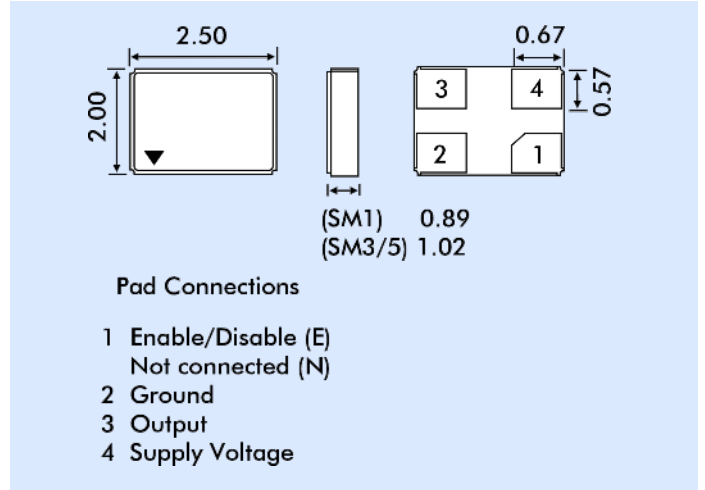
CXOQ oscillators are ultra-miniature, surface mount units packaged in a 2.50 x 2.00 x 0.89mm package. The oscillators are capable of withstanding high shock environments. The design and build standard including availability of full 'MIL' testing ensures great reliability. Designed and manufactured in USA by Statek Inc.

SPECIFICATION

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

Frequency Range:	400kHz to 100.0MHz	
Supply Voltage:	1.8V to +3.3 Volts ±10%	
Calibration Tolerance:	±100ppm to ±30ppm	
Frequency Stability over Operating Temperature Range		
Commercial (0° ~ +70°C):	±50ppm	
Industrial(-40° ~ +85°C):	±100ppm	
Military (-55° ~ +125°C):	±100ppm	
Typical Current Consumption	±1.8V	±3.3V
24MHz:	1.5mA	3.0mA
32MHz:	2.0mA	5.0mA
50MHz:	3.0mA	6.0mA
Output Load:	15pF	
Start-up Time:	5ms max.	
Rise and Fall Time:	10ns maximum	
Duty Cycle:	45/55%	
Ageing First Year:	±5ppm maximum.	
Shock, Survival:	Standard: 5000g, 0.3ms, ½ sine HG: 20,000g, 0.3ms, ½ sine	
Vibration Survival:	20g, 10~2000Hz swept sine	
Maximum Process Temperature:	260°C for 20 seconds	

OUTLINE & DIMENSIONS



ENABLE/DISABLE OPTIONS

There are two Enable/Disable options available, 'E' and 'N'. The 'E' option stops oscillating when the output is put into the High Z state. The 'N' version does not have Pad 1 connected internally. The table below describes the 'E' Enable/Disable option.

	Enable (Pad 1 High)	Disable (Pad 1 Low)
Output Oscillator	Frequency Oscillates	High Z state Stops
Current	Normal	Very Low

When Pad 1 is allowed to float it is held high by an internal pull-up resistor.

PACKAGING OPTIONS

CXOQ oscillators are available either tray packed (<250pcs) or tape and reel (>250 pieces).
 12mm tape, 178mm or 330mm reels (EIA 418).

HOW TO ORDER CXOQ OSCILLATORS

