EURO QUARTZ

Designed & Manufactured by TATEK CXOMK/CXOMKHG OSCILLATOR

High Stability, High Shock Crystal Oscillator 200kHz to 200MHz

FEATURES

- CMOS/TTL Compatible
- High shock resistance
- Optional Enable/Disable with Tri-State
- Low EMI emission
- Full military testing available
- Hermetically sealed package

DESCRIPTION

CXOMK/CXOMKHG oscillators are miniature, surface mount units packaged in a $6.5 \times 5.0 \times 1.5$ mm package. Ultilizing the latest advancements in production technology, the oscillators are capable of achieving close tolerance frequency calibration and high stability over a wide temperature range. A high shock version is resistance. The part is available with full 'MIL' testing if required. Manufactured by Statek Inc.

APPLICATIONS

Military & Aerospace

- Smart munitions
- Cockpit systems
- Navigation

Industrial, Computer & Communications

- Industrial controls
- Instrumentation
- Microprocessor clocks
 Medical
- Infusion pumps

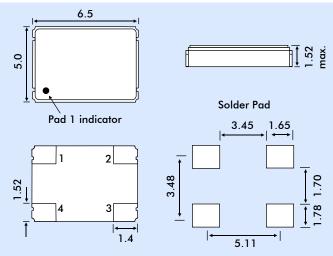
SPECIFICATION

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

Frequency Range:	200.0kHz to 200.0MHz	
Supply Voltage1:	+0.9 to 5.0Volts ±10%	
Calibration Tolerance ² :	±30ppm	
Frequency Stability		
over Operating Temperature Range ³		
Commercial (0° ~ +70°C):	±15 to ±50ppm	
Industrial(-40° ~ +85°C):	±30 to ±100ppm	
Military (-55° ~ +125°C):	±40 to ±100ppm	
Supply Current:	See table	
Output Load (CMOS)4:	15pF	
Start-up Time:	5ms maximum	
Rise/Fall Time:	6ns maximum	
Duty Cycle:	40% min., 60% max.	
Ageing First Year:	±10ppm	
Shock, Survival ⁵ :	Std:5,000g, 0.3ms, ½ sine HG: 10,000g, 0.3ms, ½ sine	
Vibration Survival ⁶ :	20g, 10~2000Hz swept sine	
Operating Temperature Ranges Commercial: Industrial: Military:	-10° to +60°C -40° to +85°C -55° to +125°C	

- 1. Voltages available: 0.9, 1.8, 2.5, 3.0, 3.3 and 5.0V
- Not all voltages are available for all frequencies. Contact factory. 2. Tighter tolerances available.
- 3. Doesn't include calibration tolerance. Tighter tol. may be available.
- 4. Higher CMOS and TTL loads available. Contact factory.
- 5. Higher shock version available. Contact factory.
- 6. Per MIL-STD-202G Method 204D, Condition D. Random vibration testing also available.

OUTLINE & DIMENSIONS



Pad Connections

- 1 Enable/Disable (E or T) or not Connected (N)
- 2 Ground
- 3 Output
- 4 Supply Voltage

PACKAGING OPTIONS

CXOMK oscillators are available either tray packed (<250pcs) or tape and reel (>250 pieces).

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

SUPPLY CURRENT

Frequency	Supply Current Vdd = 3.3V	Supply Current Vdd = 5.0V
10MHz	2mA	4mA
24MHz	4mA	8mA
30MHz	6mA	10mA
40MHz	8mA	12mA
50MHz	10mA	14mA



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Designed & Manufactured by **EXECUTER** CXOMK/CXOMKHG OSCILLATOR

High Stability, High Shock Crystal Oscillator

200kHz to 200MHz

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Issue 2

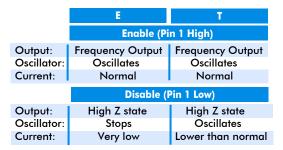
ABSOLUTE MAXIMUM RATINGS

Supply Voltage:	-0.5V to +7.0V*
Maximum Process Temperature:	260°C for 20 seconds
Storage Temperature:	-55° to +125°C

* The supply voltage range is -0.5V to +4.0Volts for some products. Contact factory.

COMPARISON OF ENABLE/DISABLE OPTIONS

There are three Enable/Disable options available, E, T and N. Both the E and T versions have Tri-state outputs. In the E version the oscillator stops, in the T version the oscillator continues to run. The N version (no tristate function) does not have pin 1 connected internally.



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

HOW TO ORDER CXOMK SMD CRYSTAL OSCILLATORS

