

ISSUE 1; February 2020

Description

- This product is designed and manufactured by Statek Corporation in California, USA and distributed by IQD. Not recommended for new designs, please see model CXOMK 3.3V
Intended for applications requiring shock survivability to 10,000G (and higher), the surface-mount CXO3MHG oscillator is a high-shock version of the CXO3M oscillator. These oscillators consist of a miniature quartz crystal and a hybrid circuit in a low-profile ceramic package with an extremely small footprint.
- SM1 SM1 (Gold Plated, RoHS compliant)
- SM5 SM5 (Solder Dipped, RoHS compliant)
- Please note that all data is only valid at 25°C unless otherwise stated.

Frequency Parameters

- Frequency 200.0kHz to 220.0MHz
- Frequency Tolerance $\pm 100.00\text{ppm}$ to $\pm 10,000.00\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability $\pm 50.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Ageing $\pm 10\text{ppm}$ max in 1st year

Electrical Parameters

- Supply Voltage 3.3V $\pm 10\%$
- Supply Voltage (absolute maximum rating): -0.5V to 7.0V

Operating Temperature Ranges

- 10 to 70°C
- 40 to 85°C
- 55 to 125°C

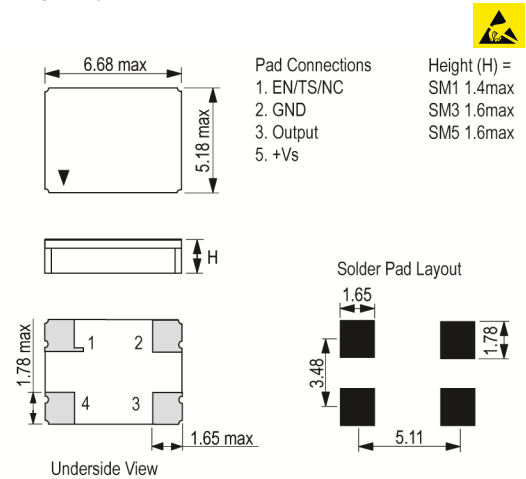
Output Details

- Output Compatibility CMOS
- Drive Capability 15pF

Output Control

- Start Up Tme: 5ms max
- Enable/Disable (EN):
Logic 1 to pad 1, output enabled
Logic 0 to pad 1, output disabled, output goes to high impedance state, current consumption very low. Internal oscillator stops.
Output recovery is delayed.
- No Connection (NC): Pad 1 No Connection
- Tri State (TS):
Logic 1 to pad 1, output enabled
Logic 0 to pad 1, output disabled, output goes to high impedance state, current consumption low. Internal oscillator continues to function.
Output recovery is immediate.

Outline (mm) -SM1 = SM1 (Gold Plated, RoHS compliant)



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Environmental Parameters

- Shock: 10000G, 0.3ms, 1/2 sine
- Vibration: MIL-STD-202G, Method 204D, Condition D: 20G, 10Hz-2000Hz swept sine
- Storage Temperature Range: -55 to 125°C

Manufacturing Details

- Features:
 - High shock resistance
 - Designed for surface mount applications using infrared, vapour phase or epoxy mount techniques
 - CMOS and TTL compatible
 - Low power consumption
 - Optional Output Enable/Disable with Tri-State
 - Low EMI emission
 - Full military testing available
- Applications:
 - Military & Aerospace -
 - Smart munitions
 - Projectile electronics
 - Industrial -
 - Engine control
 - Down-hole drilling
- Maximum Process Temperature: 260°C, 20 seconds

Ordering Information

- Frequency*
- Model*
- Termination Variant*
- Output
- Frequency Tolerance (@ 25°C)*
- Frequency Stability*
- Operating Temperature Range*
- Pad 1 Function*
- (*minimum required)
- Termination Variants:
 - SM1 = Gold Plated / SM5 = Solder Dipped
 - (Note: Non-RoHS compliant terminations also available - SM3 = Solder Dipped)
- Example
 - 10.0MHz CXO3MHG SM1
 - CMOS ±100ppm ±100ppm -40 to 85 TS

Compliance

- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Tray Tray
Pack Size: 1
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000

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Courtesy of Statek Corporation

Crystal Clock Oscillator Specification **CXO3MHG**

Electrical Specification - maximum limiting values 3.3V \pm 10%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
200.0kHz	220.0MHz	-10 to 70	\pm 50.0	-	6	40/60%
		-40 to 85	\pm 100.0	-	6	40/60%
		-55 to 125	\pm 100.0	-	6	40/60%

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