

ISSUE 9; May 2016

Description

- Not recommended for new designs, please see model CXOMK 3.3V
Statek's surface-mount 3.3V CXO3M oscillators consist of a Statek miniature quartz crystal and a CMOS/TTL compatible 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 200.0MHz
- 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 Current (typical):
2mA @ 10MHz
4mA @ 24MHz
6mA @ 30MHz
8mA @ 40MHz
10mA @ 50MHz
- Start-Up Time: 5ms max
- Absolute Maximum Supply Voltage: -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/TTL
- Drive Capability: 15pF

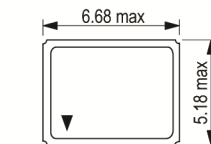
Environmental Parameters

- Shock: 3000G, 0.3ms, 1/2 sine wave
- Vibration: MIL-STD-202G, Method 204D, Test Condition D: 20G (10Hz-2000Hz), swept sine wave.
- Storage Temperature Range: -55 to 125°C

Manufacturing Details

- Maximum Process Temperature: 260°C for 20secs max

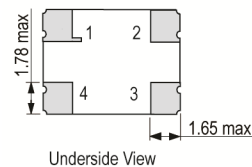
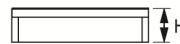
Outline (mm) -SM1 = SM1 (Gold plated, RoHS compliant)



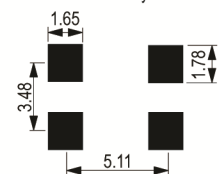
Pad Connections

- EN/TS/NC
- GND
- Output
- +Vs

Height (H) =
SM1 1.4max
SM3 1.6max
SM5 1.6max



Solder Pad Layout



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Ordering Information

- Frequency*
- Model*
- Termination Variant*
- Output Compatibility
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- Pad 1 Function*
- Example
- 40.0MHz CXO3M SM1
- CMOS ±100ppm ±50ppm -55 to 125C 3.3V NC

Compliance

- RoHS Status (2011/65/EU) Optional
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- Pack Style: Tray Supplied on a tray
Pack Size: 1
- Pack Style: Bulk Loose in Bulk pack
Pack Size: 1

Electrical Specification - maximum limiting values 3.3V ±10%

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

This document was correct at the time of printing; please contact your local sales office for the latest version.

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