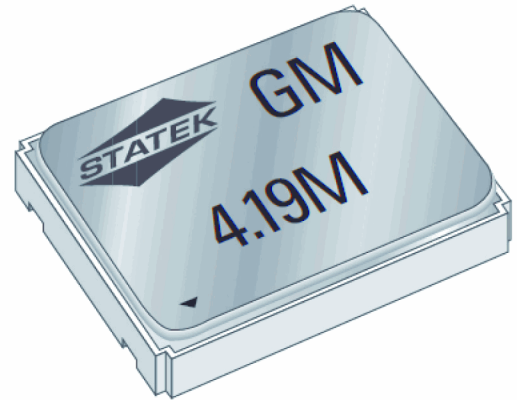


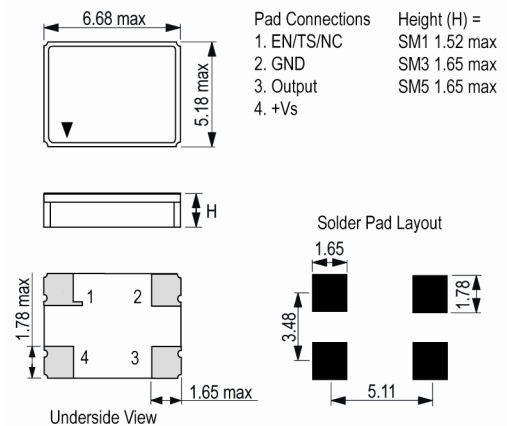
ISSUE 1; May 2016

Description

- Statek's surface-mount CXOMK oscillators consist of a Statek miniature quartz crystal and a CMOS/TTL compatible hybrid circuit in a ceramic package. Utilising the latest advancements in production technology, the CXOMK oscillator is capable of achieving tight frequency calibration tolerance and high stability over wide temperature ranges.
- HG-SM1 High G (Gold plated, RoHS compliant)
- HG-SM5 High G (Solder dipped, RoHS compliant)
- -SM1 (Gold plated, RoHS compliant)
- -SM5 (Solder dipped, RoHS compliant)
- FEATURES
 - CMOS and TTL compatible
 - Optional Output Enable/Disable with Tri-State
 - Low EMI emission
 - High shock resistance
 - Full military testing available
 - Hermetically sealed ceramic package
- APPLICATIONS
 - Military & Aerospace
 - Smart Munitions
 - Cockpit Systems
 - Navigation
 - Industrial, Computer & Communications
 - Industrial Controls
 - Instrumentation
 - Microprocessor Clocks
 - Medical
 - Infusion Pumps
- Please note that all data is only valid at 25°C unless otherwise stated.



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



Frequency Parameters

- Frequency: 200.0kHz to 220.0MHz
- Frequency Tolerance: ± 30.00 ppm
- Tolerance Condition: @ 25°C
- Frequency Stability: ± 15.00 ppm to ± 100.00 ppm
- Ageing: ± 10 ppm max in 1st year @ 25°C

Electrical Parameters

- Supply Voltage: 1.8V $\pm 10\%$
- Supply Voltage (absolute max rating): -0.5V to 4.0V
- Current consumption (typ @ 166MHz):
 - 15mA @ 2.7V
 - 18mA @ 3.0V
 - 20mA @ 3.3V
- Start-up Time: 5ms max

Operating Temperature Ranges

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

Output Details

- Output Compatibility: CMOS
- Drive Capability: 15pF

Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: 0800 1808 443

France: 0800 901 383
USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock:
 - Std: 5000G, 0.3ms, 1/2 sine
 - HG: 10000G, 0.3ms, 1/2 sine
- Vibration: MIL-STD-202G, Method 204D, Condition D: 20G, 10-2000Hz, swept sine
Note: Random vibration testing also available, please contact our sales offices

Manufacturing Details

- Maximum process temperature: 260°C for 20 seconds

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*
 - (*minimum required)
- Example
40.0MHz CXOMK SM1
CMOS ±30ppm ±50ppm -10 to 70C 1.8V TS

Compliance

- RoHS Status (2011/65/EU) Compliant
- 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: Bulk Bulk pack
Pack Size: 1
- Pack Style: Tray Supplied on a tray
Pack Size: 1

Electrical Specification - maximum limiting values 1.8V ±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	±15.0	-	6	40/60%
		-40 to 85	±30.0	-	6	40/60%
		-55 to 125	±40.0	-	6	40/60%

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

[Click to view latest version on our website.](#)

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