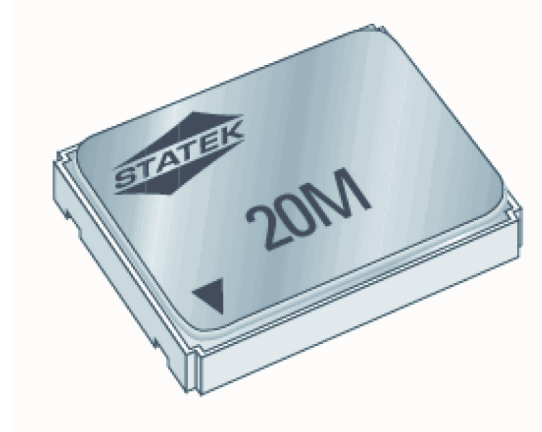


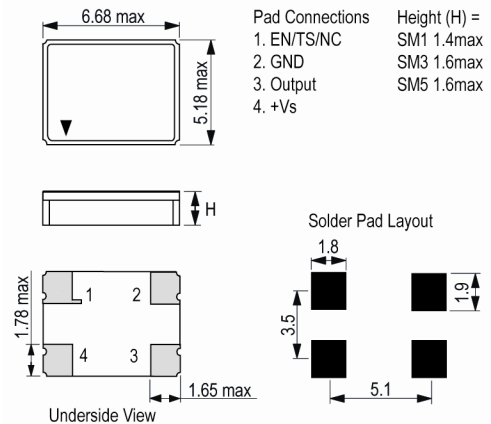
ISSUE 2; June 2019

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 CXOMKHT 3.3V
An increasing number of applications require the use of high temperature oscillators. For these applications IQD offers Statek's CXOMHT oscillator. This oscillator is designed to operate at temperatures up to 225°C with high shock survivability.
- HG-SM1 SM1 high shock (Gold plated, RoHS compliant)
- HG-SM5 SM5 high shock (Solder dipped, RoHS compliant)
- SM1 SM1 std shock (Gold plated, RoHS compliant)
- SM5 SM5 std shock (Solder dipped, RoHS compliant)
- FEATURES:
High temperature operation up to 225°C
Excellent over temperature
Fast start-up
High shock resistance
CMOS and TTL compatible
Optional output enable/disable
Low EMI emission
Hermetically sealed ceramic package
- APPLICATIONS:
Industrial -
Downhole instrumentation
Rotary shaft sensors
Underground boring tools
- Please note that all data is only valid at 25°C unless otherwise stated.



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



Frequency Parameters

- Frequency: 320.0kHz to 50.0MHz
- Frequency Tolerance: ± 50.00 ppm
- Tolerance Condition: @ 25°C
- Frequency Stability: ± 100.00 ppm to ± 250.00 ppm
- Ageing: ± 5 ppm max in 1st year at 25°C
- Ageing: ± 100 ppm max @ 200°C
- Operable Temperature Range: -55 to 225°C

Electrical Parameters

- Supply Voltage: 3.3V $\pm 10\%$
- Absolute Maximum Supply Voltage: -0.5V to 7.0V

Operating Temperature Ranges

- 25 to 150°C
- 25 to 175°C
- 25 to 200°C
- 25 to 225°C

Output Details

- Output Compatibility: CMOS
- Drive Capability: 15pF

Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

Output Control

- Enable/Disable (EN):
Logic 1 to pad 1, output enabled
Logic 0 to pad 1, output disabled, output goes to high impedance state, internal oscillator stops, therefore current consumption is very low but 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, internal oscillator continues to function, therefore current consumption is lower than normal but output recovery is immediate.
- Start Up Time: 5ms max

Environmental Parameters

- Shock:
Standard version: 3000G, 0.3ms, 1/2 sine
High Shock version (HG): 10000G, 0.3ms, 1/2 sine
- Vibration MIL-STD-202G, Method 204D, Condition D: 20G, 10-2000Hz swept sine
- Storage Temperature Range: -55 to 125°C

Manufacturing Details

- Maximum Process Temperature: 260°C (20secs max)

Ordering Information

- Frequency*
Model*
Shock Option*
Termination Variant*
Output
Frequency Tolerance (@ 25°C)*
Frequency Stability (over operating temperature range)*
Operating Temperature Range*
Supply Voltage
Pad 1 function*
(*minimum required)
- Shock Options:
Blank = Standard Shock
-HG = High Shock
- Termination Variants:
SM1 = Gold Plated
SM5 = Solder Dipped
Note: non-RoHS compliant terminations are available - please contact an IQD Sales Office
- Pad 1 Function Options:
EN = Enable/Disable
NC = No Connection
TS = Tri State
- Example:
10.0MHz CXOMHT 3.3V SM1
CMOS ±50ppm ±175ppm 25 to 200C 3.3V TS

Compliance

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

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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

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	%
320.0kHz	50.0MHz	25 to 225	-	6	10	40/60%
		25 to 150	-	6	10	40/60%
		25 to 175	-	6	10	40/60%
		25 to 200	-	6	10	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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