



CXOX

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A high frequency, low profile, miniature surface-mount oscillator consisting of a CMOS compatible hybrid circuit and a state-of-the-art fundamental-mode crystal.

Model Name	Description
CXOX 3.3V	A 3.3V Version
CXOX 5.0V	A 5.0V Version

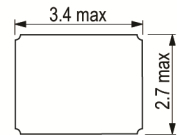
ISSUE 1; June 2019

Description

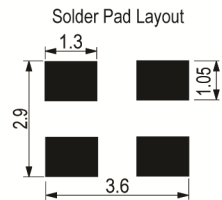
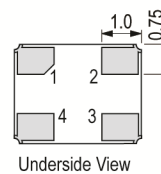
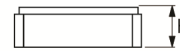
- This product is designed and manufactured by Statek Corporation in California, USA and distributed by IQD. A high frequency, low profile, miniature surface-mount oscillator consisting of a CMOS compatible hybrid circuit and a state-of-the-art fundamental-mode crystal.
- SM1 Gold Plated (RoHS)
- SM5 Solder Dipped (RoHS)
- Features:
 - Hermetically sealed ceramic package
 - Low power consumption
 - Low EMI emission
 - Optional Output Enable/Disable with Tri-State
- Applications:
 - Aerospace -
 - Communications
 - Navigation
 - GPS
 - Industrial, Computer & Communications -
 - Miniature clock oscillator
 - Handheld instrumentation
 - PDA
 - Transponder/Animal migration
 - Medical -
 - Test & Diagnostic equipment
 - Handheld devices
- Please note that all data is only valid at 25°C unless otherwise stated.



Outline (mm) SM1 = Gold Plated (RoHS)



Pad Connections	Height (H) =
1. NC/EN	SM1 1.09 max
2. GND	SM3 1.21 max
3. Output	SM5 1.21 max
4. +Vs	



Frequency Parameters

- Frequency: 1.0MHz to 160.0MHz
- Frequency Tolerance: ±100.00ppm
- Tolerance Condition: @ 25°C
- Frequency Stability: ±50.00ppm to ±100.00ppm
- Ageing: ±5ppm max in 1st year

Electrical Parameters

- Supply Voltage: 3.3V ±10%
- Supply Current (typical):
 - 3mA @ 24 MHz
 - 5mA @ 32 MHz
 - 6mA @ 50 MHz
 - 23mA @ 130MHz
- Supply Voltage (absolute maximum rating): -0.5V to 7V

Operating Temperature Ranges

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

Output Details

- Output Compatibility: CMOS
- Drive Capability: 15pF
- Start Up Time: 5ms max

Output Control

- Enable/Disable (EN):
 - Logic 1 to pin 1, output enabled
 - Logic 0 to pin 1, output disabled, output goes to high impedance state, current consumption low, internal oscillator stops.
- No Connection (NC):
 - Pad 1 not connected internally



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Environmental Parameters

- Shock: 5000G, 0.3ms, 1/2 sine
- Vibration: MIL-STD-202G, Method 204D, Condition D: 20G rms, 10Hz-2000Hz swept sine
- Storage Temperature Range: -55 to 125°C

Manufacturing Details

- Solder Process Temperature: 260°C max for 20sec max

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
40.0MHz CXOX 3.3V SM1
CMOS ±100ppm ±100ppm -40 to 85C NC

Compliance

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

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481
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	%
1.0MHz	160.0MHz	-10 to 70	±50.0	-	6	40/60%
		-40 to 85	±100.0	-	6	40/60%
		-55 to 125	±100.0	-	6	40/60%

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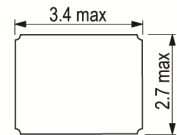
ISSUE 2; November 2022

Description

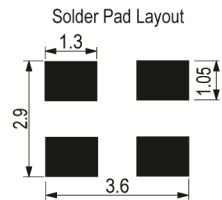
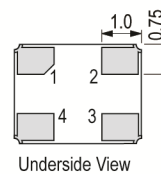
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Electrical Parameters

- Supply Voltage: 5.0V ±10%
- Supply Current (typical):
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 - 10mA @ 32 MHz
 - 13mA @ 50 MHz
 - 39mA @ 130MHz
- Supply Voltage (absolute maximum rating): -0.5V to 7V

Operating Temperature Ranges

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