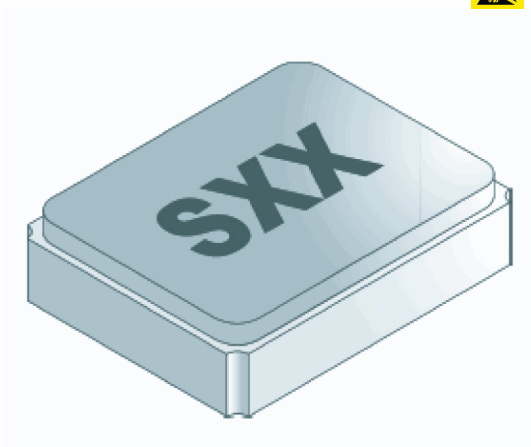
Crystal Clock Oscillator Specification
CXOXHG 3.0V

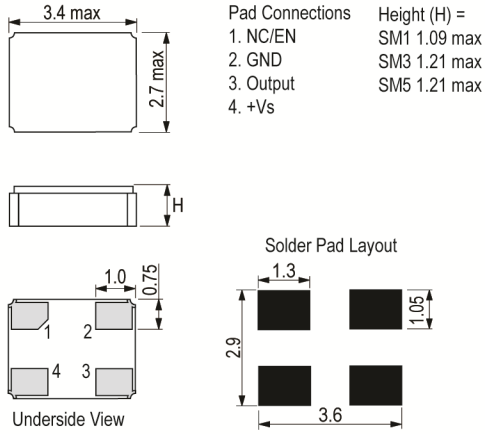
ISSUE 1; April 2016

Description

- Intended for applications requiring shock survivability to 10,000G (and higher), the surface-mount CXOXHG oscillator is a high-shock version of the CXOX oscillator. This oscillator consist of a CMOS compatible hybrid circuit and a state-of-the-art fundamental-mode crystal.
- SM1 Gold Plated (RoHS)
- SM5 Solder Dipped (RoHS)
- Please note that all data is only valid at 25°C unless otherwise stated.



Outline (mm) SM1 = Gold Plated (RoHS)



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 3.0V ±10%
- Supply Current Typical (figures given are for the 3.3V version):
  3mA @ 24MHz
  5mA @ 32MHz
  6mA @ 50MHz
  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 Compatability CMOS
- Drive Capability 15pF
- Start Up Time: 5ms max

Environmental Parameters

- Shock: 10000G, 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

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Manufacturing Details

- Features:
  High shock resistance
  Low acceleration sensitivity
  Low power consumption
  Low EMI emission
  Optional Output Enable/Disable with Tri-State
  Full military testing available
- Applications:
  Military & Aerospace -
  Smart munitions
  Communications
  Navigation
  GPS
  Industrial, Computer & Communications -
  Miniature clock oscillator
  Handheld instrumentation
  PDA
  Transponder/Animal migration
  Medical -
  Test & Diagnostic equipment
  Handheld devices
- 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 CXOXHG 3.0V SM1
  CMOS ±100ppm ±100ppm –40 to 85C NC

Compliance

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

Packaging Details

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

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Electrical Specification - maximum limiting values 3.0V ±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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Click to view latest version on our website.

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