



ISSUE 1; September 2014 - RoHS 2011/65/EU

Description

- Technological advancements permit 2.5 x 2.0mm CXOQ quartz oscillator to have design-in capabilities of withstanding high shock applications. Additionally, the ultra miniature CXOQ takes advantage of Statek's well known reliability and impeccable quality.
- SM1 SM1 Gold Plated (RoHS compliant)
- SM5 SM5 Solder Dipped (RoHS compliant)



Frequency Parameters

- Frequency: 400.0kHz to 100.0MHz
- Frequency Tolerance: $\pm 30.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Tolerance Condition: @ 25°C
- Frequency Stability: $\pm 50.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Ageing: $\pm 5\text{ppm}$ max in 1st year

Electrical Parameters

- Supply Voltage: 3.3V $\pm 10\%$
- Supply Current (typical):
1.5mA @ 24MHz
2.0mA @ 32MHz
3.0mA @ 50MHz
- Absolute Maximum Supply Voltage Range: -0.5V to 5.0V

Operating Temperature Ranges

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

Output Details

- Output Compatibility: CMOS
- Drive Capability: 15pF

Output Control

- Start-Up Time: 5ms max

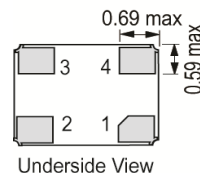
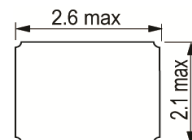
Environmental Parameters

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

Manufacturing Details

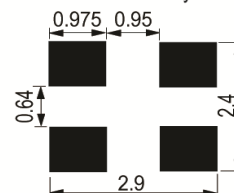
- Termination Variants:
SM1 = Gold Plated (RoHS compliant)
SM3 = Solder Dipped (non RoHS compliant)
SM5 = Solder Dipped (RoHS compliant)
- Maximum Process Temperature: 260°C for 20 seconds max

Outline (mm)



- Pad Connections
- | | |
|--------------|--------------|
| 1. EN/NC | Height (H) = |
| 2. GND & Lid | SM1 1.0 max |
| 3. Output | SM3 1.22 max |
| 4. +VS | SM5 1.22 max |

Solder Pad Layout



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**Ordering Information**

- (*minimum required):
Frequency*
Model*
Supply Voltage
Termination Variant*
Frequency Tolerance (@25°C)*
Frequency Stability (over operating temperature range)*
Operating Temperature Range
- Example:
10.0MHz CXOQ 3.3V SM1
CMOS ±100ppm ±100ppm -40 to 85C NC

Compliance

- RoHS Status 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

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	%
400.0kHz	100.0MHz	-10 to 70	±50.0	3	10	45/55
		-40 to 85	±100.0	3	10	45/55
		-55 to 125	±100.0	3	10	45/55

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