


Description

- Technological advancements permit 2.5 mm x 2.0 mm CXOQ quartz oscillator to have design-in capabilities of withstanding high shock applications. Additionally, the ultraminiature CXOQ takes advantage of Statek's well known reliability and impeccable quality.
- SM1 Gold Plated (RoHS compliant)
- Model CXOQ 2.5V-SM1
- Model Issue number 1

Frequency Parameters

- Frequency 10.0MHz
- Frequency Tolerance ± 100.00 ppm
- Frequency Stability ± 100.00 ppm
- Operating Temperature Range -55.00 to 125.00°C
- Ageing ± 5 ppm max in 1st year

Electrical Parameters

- Supply Voltage 2.5V $\pm 10\%$
- Supply Current (typical):
3mA @ 24MHz
5mA @ 32MHz
6mA @ 50MHz
- Absolute Maximum Supply Voltage Range: -0.5V to 5.0V

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF
- Rise and Fall Time 10.0ns max
- Duty Cycle 45/55%

Output Control

- Start-Up Tme: 5ms max

Output Control

- EN Internal oscillator stops, low current
Pad 1 logic '0', pad 3 high impedance
Pad 1 logic '1', pad 3 output

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

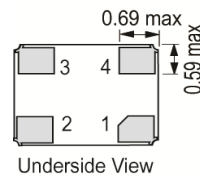
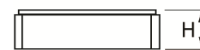
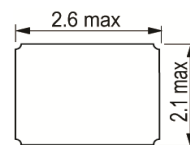
- Maximum Process Temperature: 260°C for 20 seconds max

Compliance

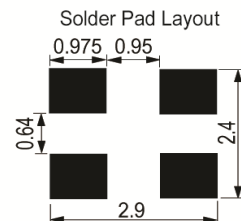
- RoHS Status (2011/65/EU) Optional
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Tray Supplied on a tray
Pack Size: 1
- *Alternative packing option available*


Outline (mm)


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


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