



Crystal Clock Oscillator Specification LSCHG-3

ISSUE 1; April 2016

Description

- Statek's high shock, low current LSCHG oscillators, available in tight frequency tolerances, consist of a Statek miniature quartz crystal and a CMOS/TTL compatible hybrid circuit in a ceramic package. Each crystal used in the LSCHG oscillator is pre-qualified before assembly through electrical tests and characterisation over temperature.
- SM1 Gold Plated (RoHS)
- SM5 Solder Dipped (RoHS)
- Please note that all data is only valid at 25°C unless otherwise stated.

Frequency Parameters

■ Frequency 100.0kHz to 200.0kHz

■ Frequency Tolerance ±100.00ppm

■ Ageing +/-3ppm max per year

- Please Note: The frequency stability does not include the calibration tolerance. Positive variations may be small compared to negative variation.
- Supply Voltage Variation: ±3ppm/V max
- Load Variation: ±1ppm max ref 10% change in load

Electrical Parameters

- Supply Voltage 3.3V ±10%
- Please Note: Lower voltages and calibration tolerances tighter than 100ppm many be available, please contact one of our sales offices
- Absolute Maximum Supply Voltage Range: -0.5V to 7V

Operating Temperature Ranges

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

Output Details

Output Compatability CMOSDrive Capability 15pF

Output Levels: VoH 2.8V min VoL 0.2V max

Environmental Parameters

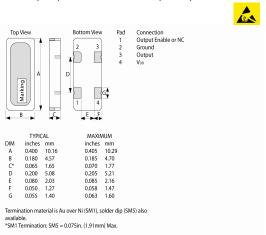
Storage Temperature Range: -55 to 125°C
Shock: up to 50,000G peak 1ms, half sine

■ Vibration: 10G rms, 10-2000Hz

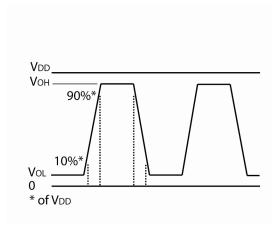
Manufacturing Details

Process Temperature: 260°C for 20sec max

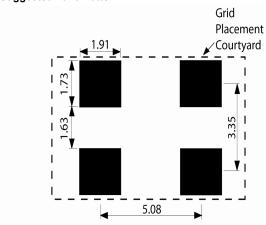
Outline (mm) SM1 = Gold Plated (RoHS)



Wave Form



Suggested Land Pattern



Sales Office Contact Details:

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Ordering Information

Frequency*
 Model
 Termination Variant*
 Pad 1 Function*
 Tolerance
 Temperature Range*

 Example: 100kHz LSCHG-3-SM1 NC 100 -70 to 70C

Compliance

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

Packaging Details

■ Pack Style: Reel Tape and reel, 16mm tape, 7" or 13" reels

Pack Size: 1,000

■ Pack Style: Tray Tray Pack

Pack Size: 100

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	%
100.0kHz	200.0kHz	-10 to 70	-	0.03	50	40/60
		-40 to 85	-	0.03	50	40/60
		-55 to 125	-	0.03	50	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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