



Crystal Clock Oscillator Specification *LSCHG-5*

ISSUE 1; April 2016

Description

- Hermetically sealed high shock, low current clock oscillator 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 characterization 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
 Frequency Tolerance
 Ageing
 100.0kHz
 ±100.00ppm
 ±3ppm max per year

Supply Voltage Variation: ±3ppm/V max

■ Load Variation (ref ±10% change): ±1ppm max

Electrical Parameters

■ Supply Voltage 5.0V ±10%

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//10MΩ

Output Levels: VoH 4.8V min VoL 0.2V max

Environmental Parameters

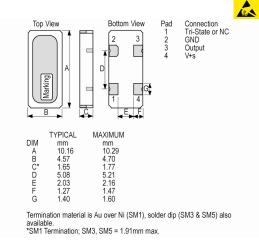
Storage Temperature Range: -55 to 125°C
 Shock: Up to 50,000G peak, 1ms, 1/2 sine

Vibration: 10G RMS, 10-2000Hz

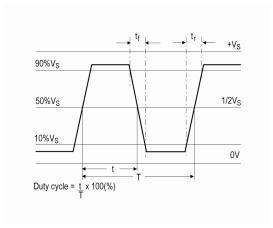
Manufacturing Details

Process Temperature: 260°C for 20sec max

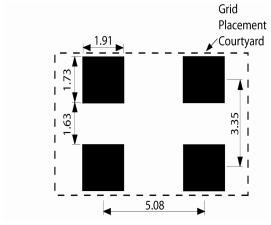
Outline (mm) SM1 = Gold Plated (RoHS)



Wave Form



Solder Pad Layout



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Ordering Information

Frequency
 Model*
 Supply Voltage
 Termination Variant*
 Pad 1 Function*
 Frequency Tolerance
 Operating Temperature Range*

Terminations:

SM1 - Gold (RoHS)

SM3 - Solder Dipped (non RoHS)

SM5 - Solder Dipped (RoHS)

■ Example:

100.0kHz LSCHG-5-SM1 TS 100 -10 to 70C

Compliance

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

Packaging Details

Pack Style: Tray Tray pack

Pack Size: 100

■ Pack Style: Reel Tape & reel in accordance with EIA-481-D

Pack Size: 1,000

Electrical Specification - maximum limiting values 5.00V ±10%

Frequency	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
	°C	ppm	mA	ns	%
100.0kHz	-55 to 125	±0.00	0.015	25	40/60%
	-40 to 85	±0.00	0.015	25	40/60%
	-10 to 70	±0.00	0.015	25	40/60%

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