



Crystal Clock Oscillator Specification LSC 3.3V

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Description

- Statek's LSC oscillators, designed especially for applications requiring low power consumption, as low as 500nA, consist of a Statek miniature Tuning Fork quartz crystal and a CMOS compatible hybrid circuit in a ceramic package.
- 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 30.0kHz to 200.0kHz
■ Frequency Tolerance ±100.00ppm
■ Tolerance Condition @ 25°C

Ageing ±3ppm max per year
 Frequency Stability (-10 to 70°): ±70ppm typ, ±100ppm max

■ Supply Voltage Variation (±10%): ±1ppm/V typ, ±3ppm/V max

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

Electrical Parameters

■ Supply Voltage 3.3V ±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
 Drive Capability
 CMOS
 10pF//10MΩ

Output Levels: VoH 4.8V min VoL 0.2V max

Environmental Parameters

Storage Temperature Range: -55 to 125°C

■ Shock: Up to 1000G, 1ms, 1/2 sine (±3ppm max)

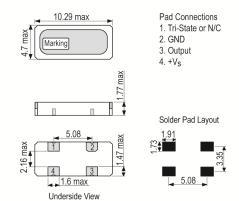
Vibration: 10G rms, 10-2000Hz (±3ppm max)

Manufacturing Details

■ Process Temperature: 260°C for 20sec max



Outline (mm) SM1 = Gold Plated (RoHS)



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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 LSC 3.3V-SM1 TS ±100ppm -10 to 70C

Compliance

RoHS Status (2011/65/EU) 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 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	%
30.00kHz	200.0kHz	-10 to 70	-	0.01	50	40/60%
		-40 to 85	-	0.01	50	40/60%
		-55 to 125	-	0.01	50	40/60%

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