

ISSUE 1; January 2016

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: $\pm 100.00\text{ppm}$
- Tolerance Condition: @ 25°C
- Ageing: $\pm 3\text{ppm}$ max per year
- Frequency Stability (-10 to 70°): $\pm 70\text{ppm}$ typ, $\pm 100\text{ppm}$ max
- Supply Voltage Variation ($\pm 10\%$): $\pm 1\text{ppm/V}$ typ, $\pm 3\text{ppm/V}$ max
- Load Variation ($\pm 10\%$ change): $\pm 1\text{ppm}$ max

Electrical Parameters

- Supply Voltage: 5.0V $\pm 10\%$
- 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 Compatibility: CMOS
- Drive Capability: 10pF//10M Ω
- Output Levels:
 - VoH 4.8V min
 - VoL 0.2V max

Environmental Parameters

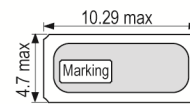
- Storage Temperature Range: -55 to 125°C
- Shock: Up to 1000G, 1ms, 1/2 sine ($\pm 3\text{ppm}$ max)
- Vibration: 10G rms, 10-2000Hz ($\pm 3\text{ppm}$ max)

Manufacturing Details

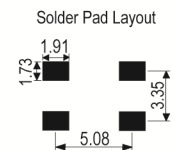
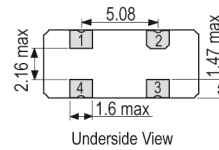
- Process Temperature: 260°C for 20sec max



Outline (mm) SM1 = Gold Plated (RoHS)



- Pad Connections
1. Tri-State or N/C
 2. GND
 3. Output
 4. +V_S



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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 5.0V-SM1
TS ±100ppm -10 to 70C

Compliance

- RoHS Status (2011/65/EU) Optional
- REACH Status Compliant
- MSL Rating (JEDEC-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 5.0V ±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	-	0.012	50	40/60%
		-40 to 85	-	0.012	50	40/60%
		-55 to 125	-	0.012	50	40/60%

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