



Crystal Clock Oscillator Specification **HFXO 1.8V**

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Description

- Statek's high shock HFXO 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 HFXO oscillator is pre-qualified before assembly through electrical tests and characterisation over temperature.
- -A-SM1 5000G, Gold Plated (lead free)
- -A-SM5 5000G, Solder Dipped (lead free)
- -B-SM1 10000G, Gold Plated (lead free)
- -B-SM5 10000G, Solder Dipped (lead free)
- -C-SM1 20000G, Gold Plated (lead free)
- -C-SM5 20000G, Solder Dipped (lead free)
- -D-SM1 30000G, Gold Plated (lead free)
- -D-SM5 30000G, Solder Dipped (lead free)
- -F-SM1 50000G, Gold Plated (lead free)
- -F-SM5 50000G, Solder Dipped (lead free)
- -G-SM1 75000G, Gold Plated (lead free)
- -G-SM5 75000G, Solder Dipped (lead free)
- Please note that all data is only valid at 25°C unless otherwise stated.

Frequency Parameters

■ Frequency
 220.0kHz to 100.0MHz
 ■ Frequency Tolerance
 ±10.00ppm to ±100.00ppm

Tolerance Condition @ 25°0

■ Frequency Stability ±10.00ppm to ±100.00ppm
 ■ Ageing ±5ppm max in 1st year

Electrical Parameters

■ Supply Voltage 1.8V ±5%

Absolute Maximum Supply Voltage: -0.5V to 7.0V
 Note: the supply voltage range is -0.5V to 4.0V for some products.

Operating Temperature Ranges

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

Output Details

Output Compatability CMOSDrive Capability 15pF

Environmental Parameters

- Shock: 0.5ms, 1/2 sine up to 75000G
- Vibration: 20G, 10Hz-2000Hz, swept sine
- Storage Temparature Range: –55 to 125°C

Manufacturing Details

Maximum Process Temperature: 260°C for 20 seconds max

Outline (mm) -A-SM1 = 5000G, Gold Plated (lead free)





Pad Connections 1. EN/TS/NC 2. GND 3. Output 4. +Vs Height (H) = SM1 1.73mm max SM3 1.91mm max SM5 1.91mm max





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Ordering Information

Minimum required*

Frequency*

Model*

Termination Variant*

Output Compatiblity

Frequency Tolerance (@25°C)*

Frequency Stability (over operating temperature range)*

Operating Temperature Range*

Pad 1 Function*

Shock Requirement*

Example

40.0MHz HFXO 1.8V-A-SM1

CMOS ±10ppm ±20ppm -10 to 70C NC

Shock Level Options:

A = 5000G

B = 10000G

C = 20000G

D = 30000G

F = 50000G

G = 75000G

■ Termination Options:

SM1 = Gold Plated

SM3 = Solder Dipped (non RoHS)

SM5 = Solder Dipped (Pb free)

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

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

Pack Size: 1,000

Electrical Specification - maximum limiting values 1.8V ±5%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
220.00kHz	100.0MHz	-10 to 70	±10.0	-	10	40/60%
		-40 to 85	±20.0	-	10	40/60%
		-55 to 125	±40.0	-	10	40/60%

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