



Crystal Clock Oscillator Specification **HFXO 5.0V**

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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 characterization 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°

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

Electrical Parameters

Supply Voltage 5.0V ±5%
 Absolute Maximum Supply Voltage: -0.5V to 7.0V
 Note: the supply voltage range is -0.5V to 4.0V for some

Operating Temperature Ranges

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

Output Details

Output CompatabilityDrive CapabilityCMOS15pF

Environmental Parameters

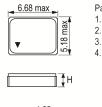
- Shock: 0.5ms, 1/2 sine up to 75000G
- Vibration: 20G, 10Hz-2000Hz, swept sine
- Storage Temparature Range: –55 to 125°C

Manufacturing Details

■ Maximum Process Temperature: 260°C for 20 seconds max



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



 Pad Connections
 Height (H) =

 1. EN/TS/NC
 SM1 1.73mm max

 2. GND
 SM3 1.91mm max

 3. Output
 SM5 1.91mm max

 4. +Vs





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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 5.0V-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 5.0V $\pm 5\%$

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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