

CXO-M, CXO-3M

ISSUE 6; 4 AUG 2008

Delivery Options

- Please contact our sales office for current leadtimes

Output Compatibility

- Tri-state / non tri-state CMOS
- Drive Capability: 15pF

Package Outline

- Statek's 6.5 x 5.0 x 1.6mm SMD device. Available in 5V (CXO-M) and 3.3V (CXO-3M) non tri-state or tri-state versions

Terminations

- SM1 - Gold over Nickel
- SM3 - Pb solder dipped
- SM5 - Pb free solder dipped

Standard Frequency Stabilities

- Please see Electrical Specification table overleaf

Operating Temperature Ranges

- C = -10 to 70°C
- I = -40 to 85°C
- M = -55 to 125°C

Storage Temperature Range

- -55 to 125°C

Ageing

- ±10ppm max in 1st year

Environmental Specification

- Shock: 3000g peak, 0.3ms, 1/2 sine
- Vibration: MIL-STD-202G, Method 204D, Condition D 20g, 10-2000Hz swept sine

Tri-state Operation

- Pad 1 normally high (internal pull-up resistor)
- Tri-state type
Pad 1 logic '0', pad 3 high impedance
Pad 1 logic '1', pad 3 Output
- Enable type (internal oscillator stops, low current)
Pad 1 logic '0', pad 3 high impedance
Pad 1 logic '1', pad 3 Output

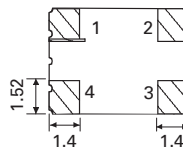
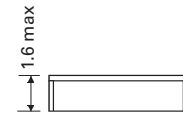
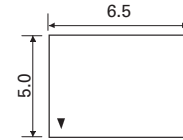
Marking

- Statek Logo, Frequency, Date Code (Year/Week), Pad 1 indicator

Minimum Order Information Required

- Frequency + Model Number + Load + Enable + Termination + Frequency Tolerance @ 25°C + Frequency Stability Over Operating Temperature Range + Operating Range

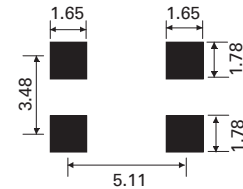
Outline in mm



Pad Connections

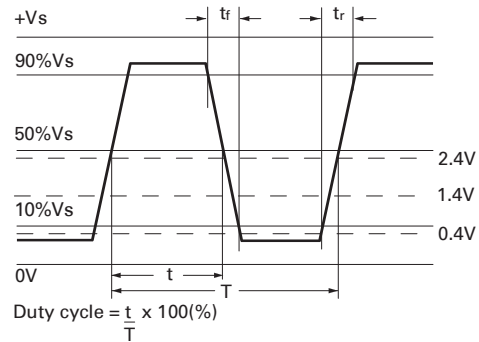
1. Enable/Disable or N/C
2. GND
3. Output
4. +Vs

Solder pad layout



Please note: Pad 1 = No connection on non tri-state model

Output Waveform - HCMOS/TTL



Electrical Specification – maximum limiting values

Frequency Range	Frequency Tolerance 25°C±2°C	Supply Current (typical spot values)	Supply Voltage	Operating Temperature Ranges	Frequency Stability Available Over Operating Temperature		Rise Time (tr)	Fall Time (tr)	Duty Cycle	Model Number					
					Minimum	Maximum									
300kHz to 120MHz	A ±100ppm B ±1000ppm C ±10000ppm	4mA @ 10MHz 8mA @ 24MHz 10mA @ 30MHz 12mA @ 40MHz 14mA @ 50MHz	5.0V	-10 to 70°C	±10ppm	±50ppm	6ns	6ns	40/60%	CX0-M					
				-40 to 85°C	±20ppm	±100ppm									
				-55 to 125°C	±30ppm										
300kHz to 170MHz		A ±100ppm B ±1000ppm C ±10000ppm	2mA @ 10MHz 4mA @ 24MHz 6mA @ 30MHz 8mA @ 40MHz 10mA @ 50MHz	3.3V	-10 to 70°C	±10ppm					±50ppm	6ns	6ns	40/60%	CX0-3M
					-40 to 85°C	±20ppm					±100ppm				
					-55 to 125°C	±30ppm									

Ordering Example 50.0MHz CX0-M T SM1 A 50 C

Frequency _____

Model No (CX0-M = 5V, CX0-3M = 3.3V) _____

Enable = E, T = Tri-State; N = Non Tri-State _____

Termination SM1, SM3, SM5 _____

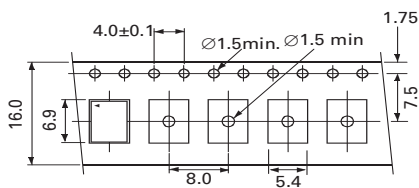
Frequency Tolerance @ 25°C _____

Frequency Stability Over Operating Temperature Range _____

Operating Temperature Range: C = -10 to 70°C; I = -40 to 85°C; M = -55 to 125°C _____

Please note that the rise and fall times listed are the maximum values to cover various frequency breaks. In practice the actual values are generally lower depending upon the spot frequency chosen.

Outline in mm - Tape



Outline in mm - Reel

