

CXO-M, -3M SMD CLOCK OSCILLATORS

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Description

- Statek manufactured surface mount oscillator in a ceramic package with a hermetically sealed metal lid

Package Outline

- 6.5 x 5mm

Terminations

- SM1 - Gold over Nickel - **RoHS 2002/95/EC**
- SM3 - Pb solder dipped
- SM5 - Pb free solder dipped - **RoHS 2002/95/EC**

Output Compatibility & Load

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

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

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

Supply Voltage

- 3.3V - CXO-3M
- 5.0V - CXO-M

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

Marking Includes

- Frequency + Date Code + Pad 1 indicator

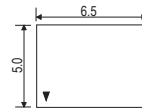
Packaging

- Tray or Tape and Reel

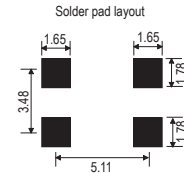
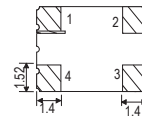
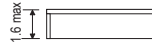
Minimum Order Information Required

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

Outline (mm)

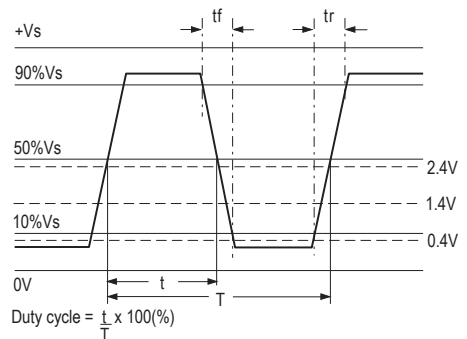


- Pad Connections
 1. Enable/Disable or N/C
 2. GND
 3. Output
 4. +Vs



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

Output Waveform



Electrical Specifications - maximum limiting values

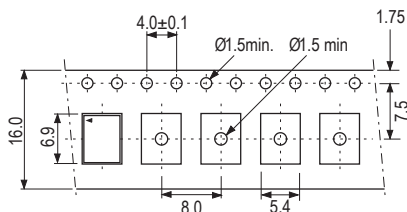
Frequency Range	Frequency Tolerance	Supply Voltage	Supply Current	Rise Time (tr)	Fall Time (tf)	Duty Cycle	Model Number
300kHz to 120MHz	A ± 100 ppm B ± 1000 ppm C ± 10000 ppm	5.0V	4mA @ 10MHz 8mA @ 24MHz 10mA @ 30MHz 12mA @ 40MHz 14mA @ 50MHz	6ns	6ns	40/60%	CXO-M
300kHz to 170MHz		3.3V	2mA @ 10MHz 4mA @ 24MHz 6mA @ 30MHz 8mA @ 40MHz 10mA @ 50MHz				CXO-3M

Ordering Example 50.0MHz CXO-M T SM1 A 50 C
 Frequency _____
 Model No. (CXO-M =5V, CXO -3M =3.3V) _____
 Enable = E, T = Tri -State, N = Non Tri -State _____
 Termination SM1, SM3, SM5 _____
 Frequency Tolerance @ 25°C _____
 Frequency Stability Over 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 we specify to cover various frequency breaks. In practice the actual values are generally lower depending upon the spot frequency chosen. For typical values please contact our sales office

CLOCK
OSCILLATORS

Tape (mm)



Reel (mm)

