CXO-M Military Oscillator 1.250 to 70.0MHz

ISSUE 1; 19 JUNE 1997

Delivery Options

Please contact our sales office for current leadtimes

Output Compatibility

- HCMOS/TTL
- Tri-state HCMOS/TTL
- Drive Compability: 50pF or 10 TTL

Package Outline

Statek's 6.5 × 5.0 × 1.6mm SMD (surface mount device). Available in 5V and 3.0V Non Tri-state or Tri-state versions.

Terminations

- SM1 Gold over Nickel
- SM3 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

Environmental Specification

- Shock: 3000g peak, 0.3ms, ¹/₂ sine
- Vibration: 20g rms 10-2000Hz random

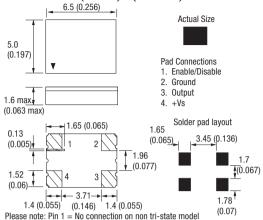
Tri-state Operation

- Pin1 normally high (internal pull-up resistor)
- Tri-state Type
 Pin 1 logic '0' or not connected, Pin 3 high impedance
 Pin 1 logic '1', Pin 3 Output
- Non Tri-state Type Pin 1 logic '1' or not connected, Pin3 Output

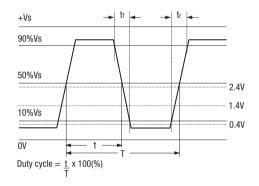
Marking

- Model number
- Frequency Stability Code
- Frequency
- Date code (Year/Week)

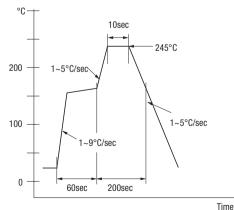
Outline in mm (inches) - (scale 3:1)



Output Waveform - HCMOS/TTL



Typical Solder Condition - Infrared Reflow



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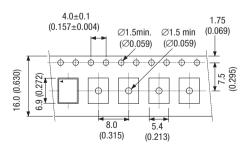
Minimum Order Information Required

Frequency + Model Number + Load + Enable + Termination + Frequency Tolerance @ 25°C + Frequency Stability over Operating Temperture Range + Operating Range

Frequency Range	*Frequency Tolerance @ 25°C ±2°C	Supply Current (Typical)	Supply Voltage	Operating Temperature Range	Frequency Stability Available Over Operating Temperature		Rise Time (t _r)	Fall Time (t _f)	Duty Cycle	Model Number
					Minimum	Maximum				
1.25 to 24.0MHz	$A = \pm 100 ppm$ $B = \pm 1000 ppm$ $C = \pm 10000 ppm$	12mA	5.0V±0.5V	-10 to 70°C	±10ppm	±50ppm	6ns	6ns	40/60%	СХО-М
				–40 to 85°C	±20ppm	±100ppm				
				–55 to 125°C	±30ppm	±100ppm				
> 24.0 to 30.0MHz	$A = \pm 100ppm$ $B = \pm 1000ppm$ $C = \pm 10000ppm$	16mA	5.0V±0.5V	–10 to 70°C	±10ppm	±50ppm	6ns	6ns	40/60%	СХО-М
				–40 to 85°C	±20ppm	±100ppm				
				–55 to 125°C	±30ppm	±100ppm				
> 30.0 to 40.0MHz	$A = \pm 100 ppm$ $B = \pm 1000 ppm$ $C = \pm 10000 ppm$	20mA	5.0V±0.5V	–10 to 70°C	±10ppm	±50ppm	6ns	6ns	40/60%	CXO-M
				–40 to 85°C	±20ppm	±100ppm				
				–55 to 125°C	±30ppm	±100ppm				
> 40.0 to 70.0MHz	$A = \pm 100ppm$ $B = \pm 1000ppm$ $C = \pm 10000ppm$	25mA	5.0V±0.5V	–10 to 70°C	±10ppm	±50ppm	6ns	6ns	40/60%	CXO-M
				–40 to 85°C	±20ppm	±100ppm				
				–55 to 125°C	±30ppm	±300ppm				
Load: 10= 10 Enable: T= Tr Fermination — Frequency To Frequency Sta	TTL	ate ———— Temperature	Range ———				<u>C</u>			

Electrical Specification - maximum limiting values

Outline in mm (inches) - Tape



Outline in mm (inches) - Reel (scale 1:5)

