

# Voltage Controlled Crystal Oscillator

## CVXO-018T Model

5x7 mm SMD, 3.3V, HCMOS

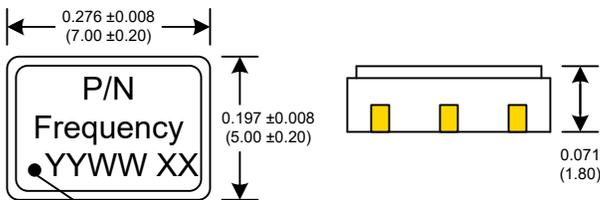
<b>Frequency Range:</b>	1 MHz to 52 MHz
<b>Frequency Stability:</b>	±25ppm to ±100ppm
<b>Temperature Range:</b>	
Operating:	0°C to 70°C
(Option M)	-20°C to 70°C
(Option X)	-40°C to 85°C
<b>Storage:</b>	-45°C to 90°C
<b>Input Voltage:</b>	3.3V ±0.3V
<b>Control Voltage:</b>	1.65V ±1.65V
<b>Settability* At Nominal:</b>	1.65V ±0.25V
<b>Frequency Pulling:</b>	±100ppm Min
<b>Input Current:</b>	10mA Max
<b>Output:</b>	HCMOS
Load:	15pF
Symmetry:	40/60% Max @ 50% Vdd
Rise/Fall Time:	5ns Max @ 20% to 80% Vdd
Logic:	"0" = 10% Vdd Max "1" = 90% Vdd Min
Linearity:	±10% Max
<b>Aging:</b>	<3ppm 1 <sup>st</sup> year, <1ppm every year thereafter



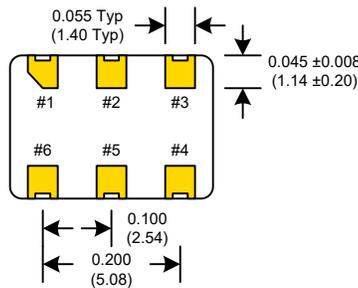
Designed to meet today's requirements for 3.3V Voltage Controlled Crystal Oscillator SMD Applications. The CVXO-018T provides a disable function for ICT (in-circuit-testing). Available on 16mm tape and reel in quantities of 1K.

Dimensions inches (mm)

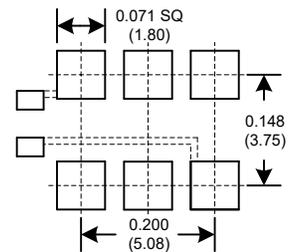
All dimensions are Max unless otherwise specified.



Denotes pad 1  
YYWW=Date Code XX=Lot Code

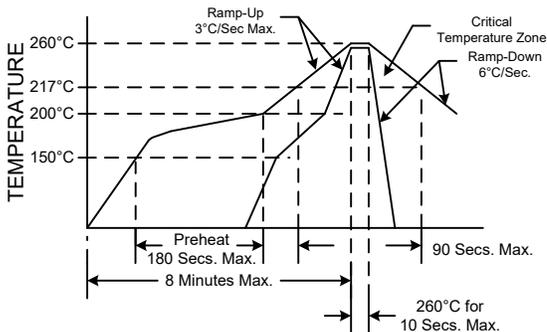


### SUGGESTED PAD LAYOUT



0.01µF Bypass Capacitor Recommended

### RECOMMENDED REFLOW SOLDERING PROFILE



NOTE: Reflow Profile with 240°C peak also acceptable.

### Crystek Part Number Guide

CVXO - 018TX - 25 - 49.152

#1	#2	#3	#4	#5	Stability Indicator
#1 Crystek VCXO	#2 Model	#3 Temp. Range: Blank= 0/70°C, M= -20/70°C, X= -40/85°C	#4 Stability: (see Table 1)	#5 Frequency in MHz: 3 or 6 decimal places	Blank (std) ± 100ppm 25 ± 25ppm 50 ± 50ppm

Example:  
CVXO-018TX-25-25.000 = 3.3V, -40/85°C, 40/60, 25ppm, 25.000 MHz  
CVXO-018T-50-19.660800 = 3.3V, 0/70°C, 40/60, 50ppm, 19.660800 MHz

Table 1

PIN	Connection
1	Voltage Control
2	Enable/Disable
3	GND
4	Output
5	N/C
6	Vdd

Enable/Disable	
Function pin 2	Output pin
Open	Active
"1" level Vdd-0.4 Min	Active
"0" level 0.4 Max	High Z

\*Settability is the Control Voltage at which the Output Frequency is equal to the nominal Frequency.

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Rev: M

Date: 25-Feb-2020

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