



CRYSTEK
CRYSTALS
A DIVISION OF CRYSTEK CORPORATION

Voltage Controlled Crystal Oscillator

CVXO-018T Model

5x7 mm SMD, 3.3V, HCMOS

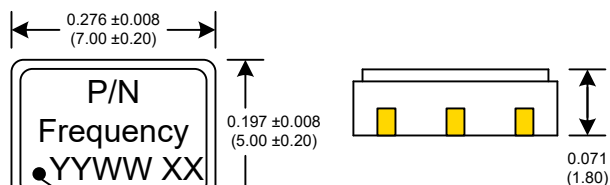
Frequency Range:	1 MHz to 52 MHz
Frequency Stability:	±25ppm to ±100ppm
Temperature Range:	
Operating:	0°C to 70°C
(Option M)	-20°C to 70°C
(Option X)	-40°C to 85°C
Storage:	-45°C to 90°C
Input Voltage:	3.3V ±0.3V
Control Voltage:	1.65V ±1.65V
Settability* At Nominal:	1.65V ±0.25V
Frequency Pulling:	±100ppm Min
Input Current:	10mA Max
Output:	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
Aging:	<3ppm 1 st 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.

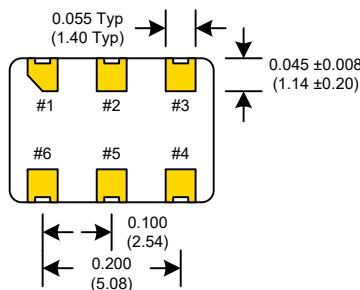
Dimensions inches (mm)

All dimensions are Max unless otherwise specified.

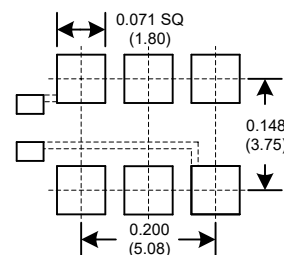


Denotes pad 1

YYWW=Date Code XX=Lot Code

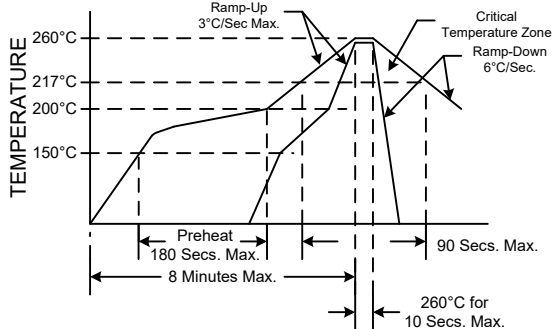


SUGGESTED PAD LAYOUT



0.01uF Bypass Capacitor Recommended

RECOMMENDED REFLOW SOLDERING PROFILE



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

Crystek Part Number Guide

CVXO - 018T - X - 25 - 49.152

#1 #2 #3 #4 #5

#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

Stability Indicator

Blank (std) ± 100ppm
25 ± 25ppm
50 ± 50ppm

Table 1

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

PIN	Connection
1	Volt Cont.
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

Rev: L

Date: 10-May-2016

Page 1 of 1

Specifications subject to change without notice.



CRYSTEK
CORPORATION

12730 COMMONWEALTH DRIVE • FORT MYERS, FLORIDA 33913
PHONE: 239-561-3311 • 800-237-3061
FAX: 239-561-1025 • WWW.CRYSTEK.COM

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Crystek:

[CVXO-018TX-50-32.768](#) [CVXO-018TX-50-51.84](#) [CVXO-018TX-50-34.56](#) [CVXO-018TX-50-24.576](#) [CVXO-018TX-50-24.704](#) [CVXO-018TX-50-44.736](#) [CVXO-018TX-50-19.44](#) [CVXO-018TX-50-16.384](#) [CVXO-018TX-50-13.5](#) [CVXO-018TX-50-38.88](#) [CVXO-018TX-50-8.192](#) [CVXO-018TX-50-35.328](#) [CVXO-018TX-50-12.288](#) [CVXO-018TX-50-12.352](#) [CVXO-018TX-50-4.096](#) [CVXO-018T-50-20.000](#)