



CRYSTEK
CRYSTALS
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Voltage Controlled Crystal Oscillator

CVXO-018T Model

5x7 mm SMD, 3.3V, HCMOS

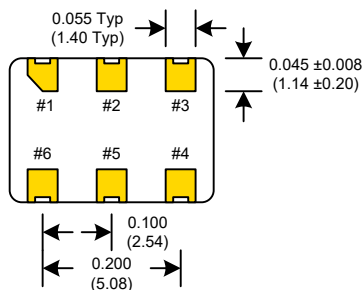
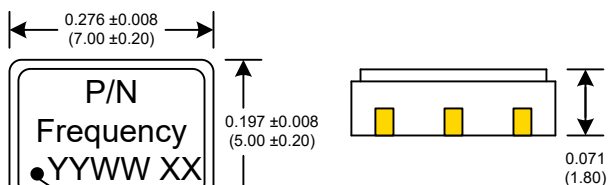
Frequency Range:	1 MHz to 52 MHz
Frequency Stability:	±25ppm to ±100ppm
Temperature Range:	
Operating:	0°C to 70°C
(Option M)	-20°C to 70°C
(Option X)	-40°C to 85°C
Storage:	-45°C to 90°C
Input Voltage:	3.3V ±0.3V
Control Voltage:	1.65V ±1.65V
Settability* At Nominal:	1.65V ±0.25V
Frequency Pulling:	±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



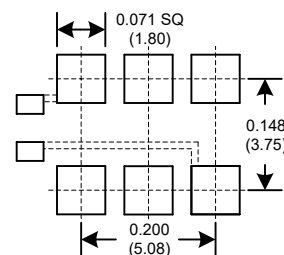
Designed to meet today's requirements for 3.3V Voltage Controlled Crystal Oscillator SMD Applications. The CVXO-018T provides a disable function for ICT (in-circuit-testing). Available on 16mm tape and reel in quantities of 1K.

Dimensions inches (mm)

All dimensions are Max unless otherwise specified.

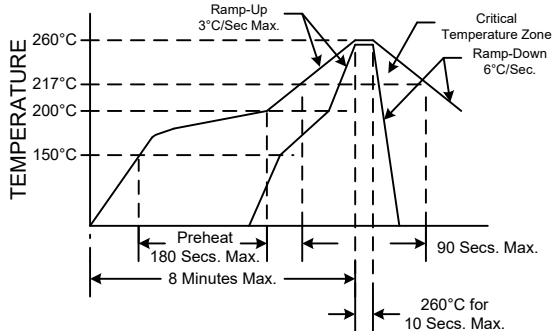


SUGGESTED PAD LAYOUT



0.01uF Bypass Capacitor Recommended

RECOMMENDED REFLOW SOLDERING PROFILE



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

Crystek Part Number Guide

CVXO - 018TX - 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	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.

Crystek Corporation reserves the right to make changes to its products and/or information contained herein without notice.
No liability is assumed as a result of its use or application.

Rev: M

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