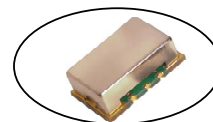


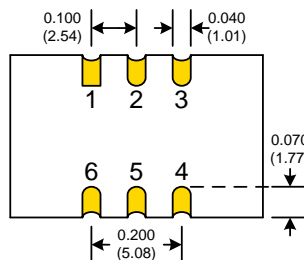
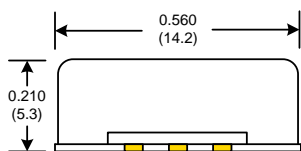
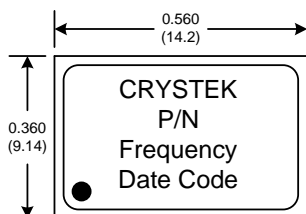
# Voltage Controlled Crystal Oscillator

## CVXO-918T Model 9x14 mm SMD, 3.3V, HCMOS

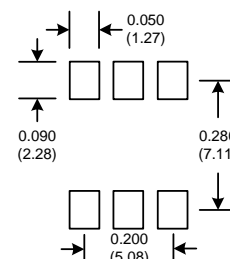
<b>Frequency Range:</b>	1 MHz to 52 MHz
<b>Frequency Stability:</b>	±25ppm to ±100ppm
<b>Temperature Range:</b>	
Operating:	0°C to 70°C
(Option X)	-40°C to 85°C
<b>Storage:</b>	-45°C to 90°C
<b>Input Voltage:</b>	3.3V ±0.3V
<b>Control Voltage:</b>	1.65V ±1.35V
<b>Settability At Nominal:</b>	1.65V ±0.25V
<b>Frequency Pulling:</b>	±100ppm Min
<b>Input:</b>	
Current:	40mA Max
Impedance:	10k Ohms Min
Modulation Bandwidth:	10kHz (-3dB) Min
<b>Output:</b>	HCMOS
Load:	15pF Max
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> /yr, <1ppm every year thereafter



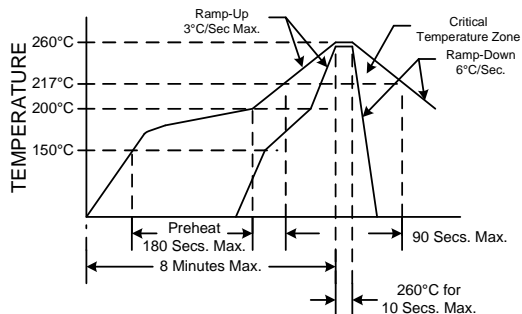
Designed to meet today's requirements for cost saving solutions. The CVXO-918T provides a Cost Savings replacements for older style ceramic tub designs. Available on 16mm tape and reel in quantities of 500pcs.



### SUGGESTED PAD LAYOUT



### RECOMMENDED REFLOW SOLDERING PROFILE



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

PIN	Function
1	Control Volt
2	Tri-State
3	GND
4	OUT
5	N/C
6	Vdd

### Crystek Part Number Guide

**CVXO - 918T - X - 25 - 49.152**

#1 #2 #3 #4 #5

#1 Crystek VCXO  
#2 Model  
#3 Temp. Range: Blank= 0/70°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-918TX-25-25.000 = 3.3V Tristate, -40/85°C, 40/60, 25ppm, 25.000 MHz  
CVXO-918T-50-19.660800 = 3.3V Tristate, 0/70°C, 40/60, 50ppm, 19.660800 MHz

Tri-State Function	
Tri-State pin	Output Pin
Open	Active
"0" level 2.7V Max	Active
"1" level 0.3V Min	High Z

Specifications subject to change without notice. **TD-040402 Rev. G**

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