

# Temperature Compensated Crystal Oscillator With Voltage Trim & Hermetic Seal



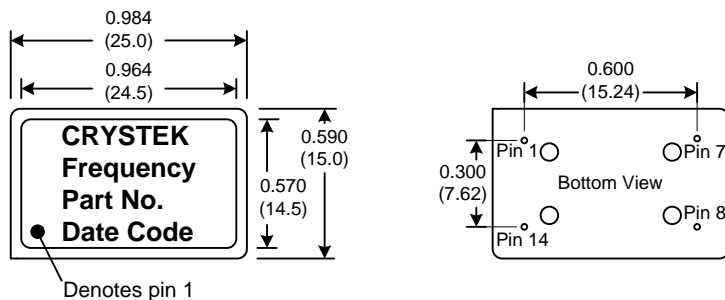
## CXOHV8 Model 14 Pin DIP, 3.3V & 5.0V, HCMOS/TTL

<b>Frequency Range:</b>	1MHz to 38MHz
<b>Frequency Stability:</b>	±1ppm to ±5ppm
<b>Freq. Stability vs Volt:</b>	±0.5ppm Max
<b>Freq. Stability vs Load:</b>	±0.3ppm Max
<b>Temperature Range:</b>	-40°C to 85°C
<b>Storage:</b>	-45°C to 90°C
<b>Input Voltage:</b>	3.3V or 5V ± 5%
<b>Trimmer Adj.:</b>	Voltage Trim
<b>Input Current:</b>	15mA Typ, 30mA Max
<b>Output:</b>	HCMOS/TTL
Symmetry:	40/60% Max @ 50% Vdd
(Option Y)	45/55% Max
Rise/Fall Time:	4ns Typ, 10ns Max
Output Voltage:	"0" = 10% Vdd Max
	"1" = 90% Vdd Min
Load:	15pF/10TTL Max
<b>Phase Noise Typ.:</b>	
10Hz	-100dBc/Hz
100Hz	-130dBc/Hz
1KHz	-140dBc/Hz
10KHz	-145dBc/Hz
100KHz	-150dBc/Hz
<b>Aging:</b>	<1ppm Max/Yr

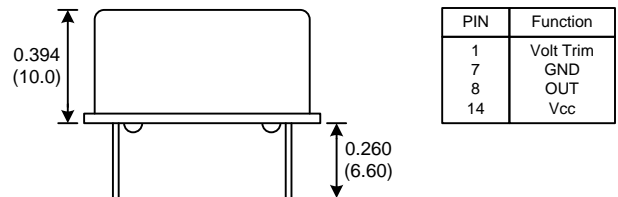
Designed to meet today's requirements for tighter frequency stability and 14 Pin Dip layout compatibility.

### VCTCXO Specification

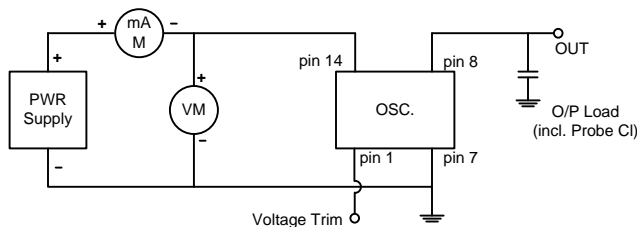
<b>Voltage Trim Pin 1:</b>	± 5ppm Min
<b>Control Voltage:</b>	(5V) 2.5V ± 2.5V
	(3.3V) 1.65V ± 1.65V



Dimensions inches (mm)  
All dimensions are Max unless otherwise specified.



Denotes pin 1



### Crystek Part Number Guide

**CXOHV8 - B C 3 Y - 25.000**

- #1 V = Control voltage, Blank = No Control Voltage
- #2 Letter = Operating Temperature (see table 1)
- #3 Letter = Frequency Stability (see table 1)
- #4 3 or blank = Input Volt (3 = 3.3 volts) (Blank = 5V)
- #5 Y or blank = Symmetry (Y=45/55) (Blank = 40/60)
- #6 Frequency in MHz: 3 or 6 decimal places

Example:  
CXOHV8-BC3Y-25.000 = Control Voltage, -10/60, ±2.5ppm, 3.3V, 45/55%, 25.000MHz

	Operating Temperature	Freq. Stability (± ppm)						
		1.0	1.5	2.0	2.5	3.0	4.0	5.0
A	0°C to 50°C							
B	-10°C to 60°C			2.0	2.5	3.0	4.0	5.0
C	-10°C to 70°C			2.0	2.5	3.0	4.0	5.0
D	-20°C to 70°C			2.0	2.5	3.0	4.0	5.0
E	-30°C to 60°C			2.0	2.5	3.0	4.0	5.0
F	-30°C to 70°C			2.0	2.5	3.0	4.0	5.0
G	-30°C to 75°C			2.0	2.5	3.0	4.0	5.0
H	-40°C to 85°C					3.0	4.0	5.0
		P	A	B	C	D	E	F

Table 1

Specifications subject to change without notice.

TD-020901 Rev. D