

CXOH / CXOHV Model **14 Pin Dip, 3.3V & 5V, HCMOS/TTL**

Frequency Range:	1MHz to 38MHz
Frequency Stability:	±1ppm to ±5ppm
Freq. Stability vs Volt:	±0.5ppm Max
Freq. Stability vs Load:	±0.3ppm Max
Temperature Range:	-40°C to 85°C
Storage:	-55°C to 120°C
Input Voltage:	3.3V or 5V ± 5%
Mech. Trim. Range:	±3ppm Min
	(Option V) Voltage Trim Pin 1
Input Current:	15mA Typ, 30mA Max
Output:	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
Phase Noise Typ.:	10Hz -100dBc/Hz
	100Hz -130dBc/Hz
	1KHz -140dBc/Hz
	10KHz -145dBc/Hz
	100KHz -150dBc/Hz
Aging:	<1ppm Max/Yr



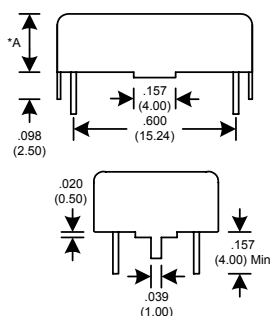
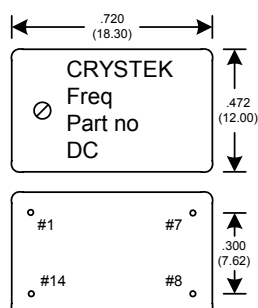
Temperature Compensated **Crystal Oscillator** **Voltage Trim Option** **Available**



Designed to meet today's requirements for tighter frequency stability tolerance while reducing unit cost.

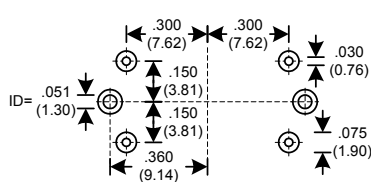
VCTCXO Specification

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



CXOH

Suggested PCB Layout

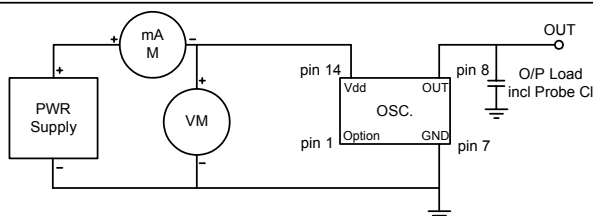


PIN	Function
1	VT or NC
7	GND
8	OUT
14	Vcc

*A .178 (4.50)
.197 (5.00)

Dimensions inches (mm)

All dimensions are Max unless otherwise specified.



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

Table 1

Crystek Part Number Guide

CXOHV - 4 B C 3 Y - 25.000

#1	#2	#3	#4	#5	#6	#7	#8
#1 Crystek TCXO HCMOS/TTL	#2 V or blank = (V = Volt Trim) (Blank = Mech. Trim)	#3 4 or blank = Height (4 = 4.5mm) (Blank = 5.0mm)	#4 Letter = Operating Temperature (see table 1)	#5 Letter = Frequency Stability (see table 1)	#6 3 or blank = Input Volt (3 = 3.3 volts) (Blank = 5V)	#7 Y or blank = Symmetry (Y=45/55) (Blank = 40/60)	#8 Frequency in MHz: 3 or 6 decimal places

Example:

CXOH-4BC3Y-25.000 = mech. trim, 4.5mm, -10/60, ±2.5ppm, 3.3V, 45/55%, 25.000MHz
CXOHV-4B3CY-25.000 = volt. trim, 4.5mm, -10/60, ±2.5ppm, 3.3V, 45/55%, 25.000MHz

Specifications subject to change without notice.

TD-020811 Rev. E