

CXOHD4 / CXOHVD4 Model
4 Pin SMD, **3.3V & 5V, HCMOS/TTL**

Frequency Range: 1MHz to 38.88MHz
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



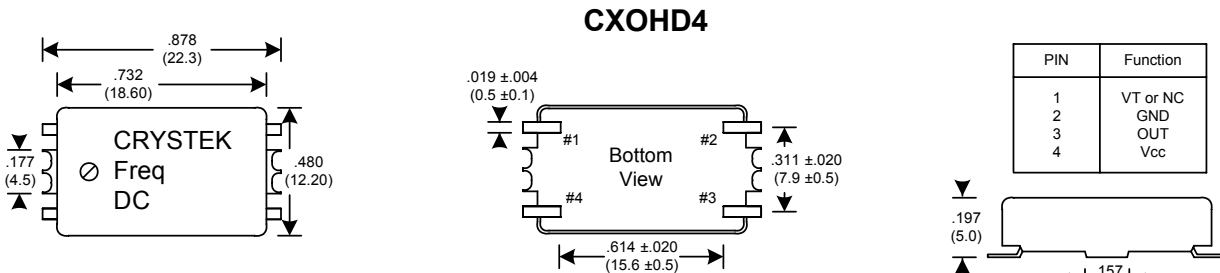
Temperature Compensated Crystal Oscillator Voltage Trim Option Available



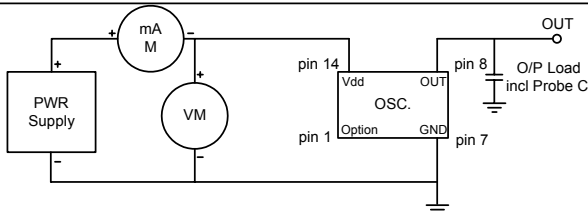
Designed to meet today's requirements for tighter frequency stability tolerance while reducing unit cost.

VCTCXO Specification

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



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



	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			2.0	2.5	3.0	4.0	5.0
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

Crystek Part Number Guide

CXOHVD4 - B C 3 Y - 25.000

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

Example:
 CXOHD4-BC3Y-25.000 = mech. trim, -10/60, ±2.5ppm, 3.3V, 45/55%, 25.000MHz
 CXOHVD4-BCY-25.000 = volt. trim, -10/60, ±2.5ppm, 3.3V, 45/55%, 25.000MHz

Specifications subject to change without notice.

TD-020815 Rev. D

