

CXOS / CXOSV Model

14 Pin Dip, 3.3V & 5V, Clipped Sine

Frequency Range:	8MHz to 30MHz 3.3V limited to 25.6MHz
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:	3mA Typ, 5mA Max
Output:	Clipped Sinewave
Output Voltage:	5V = 1.0Vpp Min 3.3V = 0.8Vpp Min
Load:	20K Ohm / 5pF 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

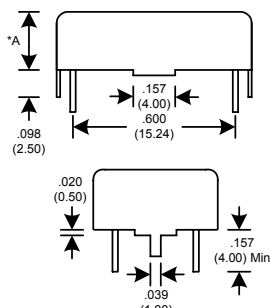
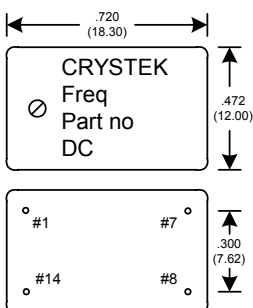
Voltage Trim Option Available



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

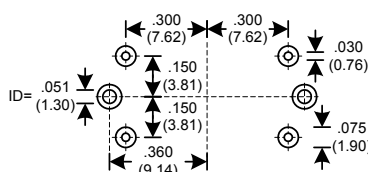
VCTCXO Specification

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



CXOS

Suggested PCB Layout

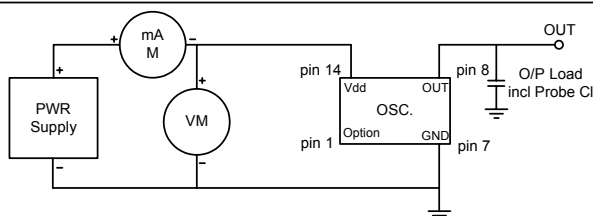


PIN	Function
1	VT or NC
7	GND
8	OUT
14	Vcc

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

CXOSV - 4 B C 3 - 25.000

#1	#2	#3	#4	#5	#6	#7
#1 Crystek TCXO Clipped Sine	#2 V or blank = (V = Volt, Trim) (Blank = Mech. Trim)	#3 4 or blank = Height (4 = 4.5mm)(Blank = 5mm)	#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 Frequency in MHz: 3 or 6 decimal places

Example:

CXOS-4BC3-25.000 = mech. trim, 4.5mm, -10/60, ±2.5ppm, 3.3V, 25.000MHz
CXOSV-4BC3-25.000 = volt. trim, 4.5mm, -10/60, ±2.5ppm, 3.3V, 25.000MHz

Specifications subject to change without notice.

TD-020812 Rev. E



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