

CVXO-014S & 014 Models

8 & 14 Pin Dip, 5V, HCMOS/TTL

Lead Free
RoHS
Compliant

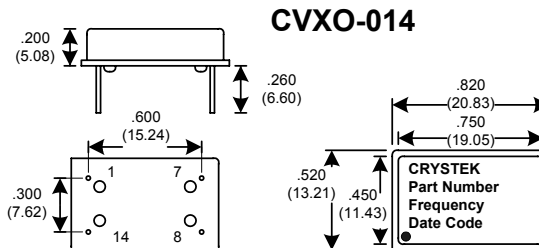
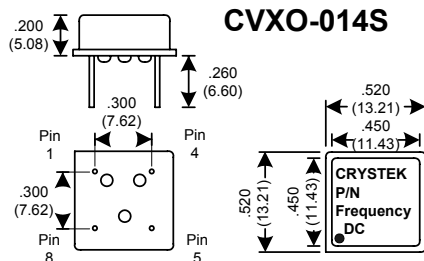
Voltage Controlled Crystal Oscillator



Designed to meet today's
requirements for
economical solutions.

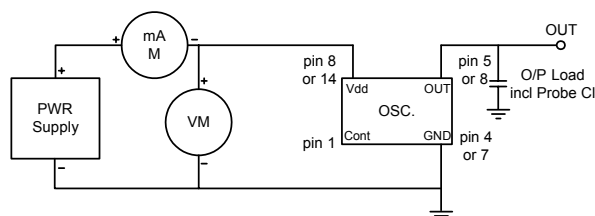
****Custom Designs Available**

Frequency Range: 1MHz to 200MHz
Frequency Stability: $\pm 10\text{ppm}$ to $\pm 100\text{ppm}$
Temperature Range: See Table 1
Storage: -55°C to 120°C
Input Voltage: $5\text{V} \pm 0.5\text{V}$
Control Voltage: $2.5\text{V} \pm 2.0\text{V}$
Input Current: 100mA Max @ 200MHz
Output: HCMOS/TTL
 Symmetry: 40/60% Max @ 50% Vdd
 (Option Y) 45/55% Max
 Rise/Fall Time: 4ns Typ, 10ns Max
 Control Range: See Table 2
 (50ppm Min, 150ppm Max Std.)
 Output Voltage: "0" = 10% Vdd Max
 "1" = 90% Vdd Min
 Load: 15pF/10TTL Max
 Linearity: $\pm 10\%$ Max
Aging: <3ppm 1st/yr, 1ppm every year thereafter



Dimensions inches (mm)

All dimensions are Max unless otherwise specified.



Operating Temperature	Freq. Stability ($\pm$ ppm)
A 0°C to 50°C	10 20 25 50 100
B -10°C to 60°C	10 20 25 50 100
C 0°C to 70°C	10 20 25 50 100
D -10°C to 70°C	20 25 50 100
E -20°C to 70°C	25 50 100
F -30°C to 60°C	25 50 100
G -40°C to 85°C	25 50 100

Table 1

CONTROL RANGE OPTIONS	
A	20ppm Typ, 30ppm Max
B	30ppm Min
C	50ppm Min
D	100ppm Min
E	150ppm Min
F	200ppm Min
G (STD)	50ppm Min, 150ppm Max
H	150ppm Min, 250ppm Max
I	200ppm Min, 300ppm Max

Table 2

Crystek Part Number Guide for 8 pin

CVXO-014S A A Y - 25 - 44.768

#1	#2	#3	#4	#5	#6	#7
#1 Crystek VCXO	#2 Model	#3 Temp. Range: (see table 1)	#4 Control Range: (see table 2)	#5 Symmetry: (Blank = 40/60, Y=45/55)	#6 Stability: (see table 1, Blank = 100ppm)	#7 Frequency in MHz: 3 or 6 decimal places

Example:

CVXO-014SAAY-25-25.000 = 5.0V VCXO, 0/50°C, $\pm 30\text{ppm}$ Max Pull, 45/55, 25ppm, 25.000 MHz
 CVXO-014SED-19.660800 = 5.0V VCXO, -20/70, $\pm 100\text{ppm}$ Min Pull, 40/60, 100ppm, 19.660800 MHz

Crystek Part Number Guide for 14 pin

CVXO-014 A A Y - 25 - 44.768

#1	#2	#3	#4	#5	#6	#7
#1 Crystek VCXO	#2 Model	#3 Temp. Range: (see table 1)	#4 Control Range: (see table 2)	#5 Symmetry: (Blank = 40/60, Y=45/55)	#6 Stability: (see table 1, Blank = 100ppm)	#7 Frequency in MHz: 3 or 6 decimal places

Example:

CVXO-014AAAY-25-25.000 = 5.0V VCXO, 0/50°C, $\pm 30\text{ppm}$ Max Pull, 45/55, 25ppm, 25.000 MHz
 CVXO-014ED-19.660800 = 5.0V VCXO, -20/70, $\pm 100\text{ppm}$ Min Pull, 40/60, 100ppm, 19.660800 MHz

Specifications subject to change without notice.

TD-02077 Rev.C



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