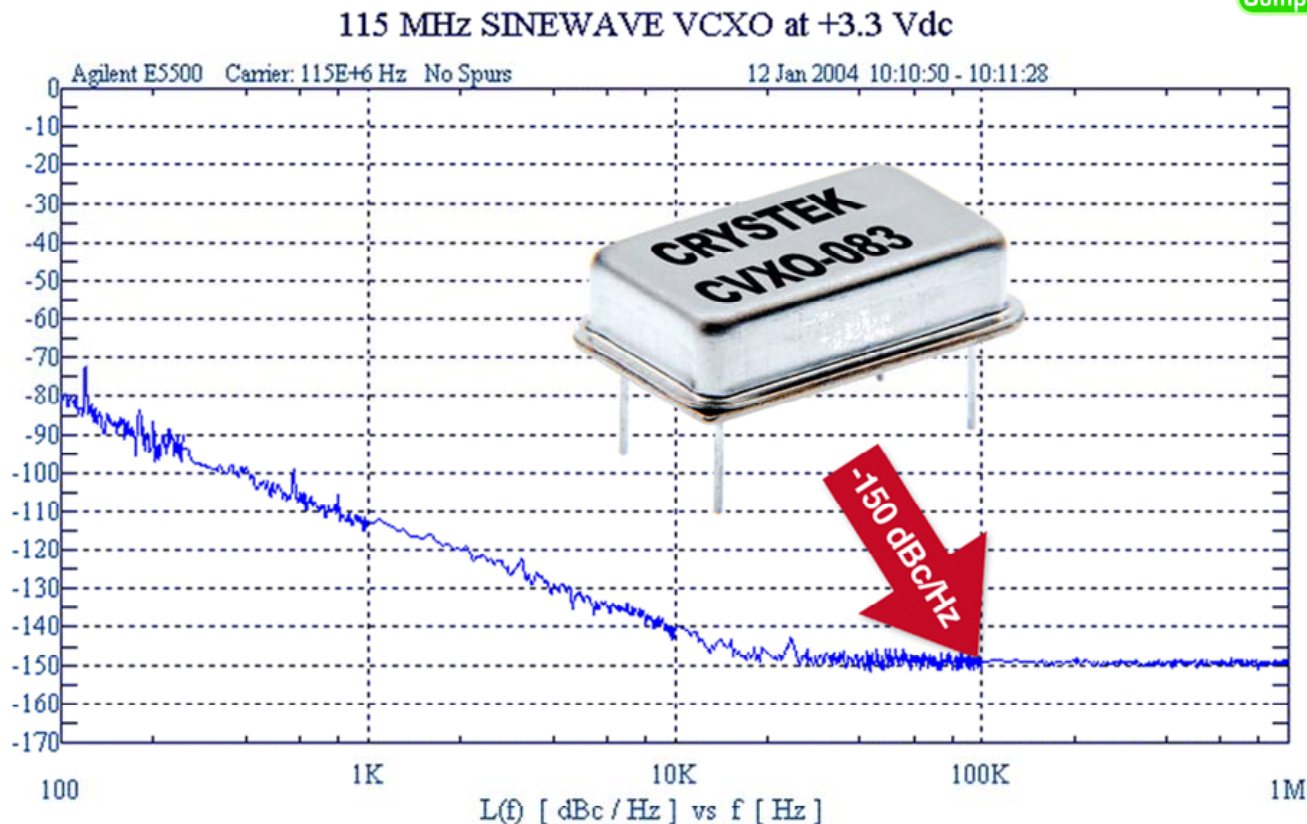


True Sinewave Clock Oscillators and Voltage Controlled Crystal Oscillators



Model CCO-083/085 (Clock Version) and CVXO-083/085 (VCXO Version) generate frequencies from 10 MHz to 200 MHz. This low current sinewave oscillator provides -150 dBc/Hz noise floor while only consuming 8mA typical. Output level is 0dBm Min into 50 ohms, and harmonics are lower than -20 dBc. The series has no sub-harmonics due to the use of Inverted Mesa (High Frequency Fundamental Crystal) technology. The oscillator is offered in an extended operating temperature range (-40°C to +85°C), also available in 3.3V and 5V models. Applications include low current applications and sources for driving PLLs and Mixers.

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True Sinewave Clock Oscillators and Voltage Controlled Crystal Oscillators

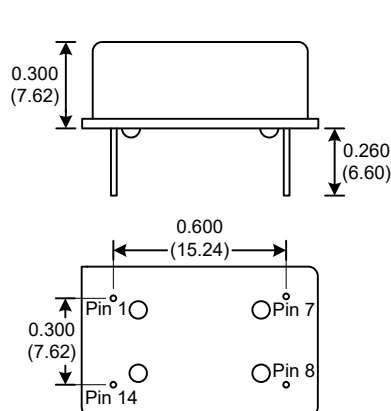


Frequency Range:	10.000 MHz to 200.000 MHz	
Temperature Range:	0°C to +70°C	
	(Option X) -40°C to +85°C	
Storage:	-45°C to 90°C	
Input Voltage:	3.3V ±0.3V	
	(Option 5) 5.0V ±0.5V	
Input Current:	8mA Typical, 15mA Max @ 3.3V	
	12mA Typical, 20mA Max @ 5.0V	
Output:	True Sinewave	
Load:	50 Ω	Phase Noise Typical:
Power (std):	0 dBm Min into 50 Ω	100 Hz -80 dBc/Hz
	(Option B) +3 dBm Min into 50 Ω	1 kHz -112 dBc/Hz
	(Option C) +5 dBm Min into 50 Ω	10 kHz -140 dBc/Hz
	(Option D) +7 dBm Min into 50 Ω	100 kHz -150 dBc/Hz
Harmonics:	-20 dBc Max	
Sub-Harmonics:	None	
Enable/Disable:	None	
Phase Noise Floor:	-150dBc Typical	
Aging:	<3ppm 1 st year, <1ppm thereafter	
CCO-083/085 Options Temperature Range:	0°C to +70°C (±25ppm Max)	
	-40°C to +85°C (±50ppm Max)	
CVXO-083/085	Frequency Pulling:	±50ppm APR Min
	Control Voltage	(083): 1.65V ±1.65V
		(085): 2.5V ±2.0V
	Settability	(083): 1.65V ±0.25V
		(085): 2.5V ±0.5V
	Linearity:	±10% Max

Part Number Example

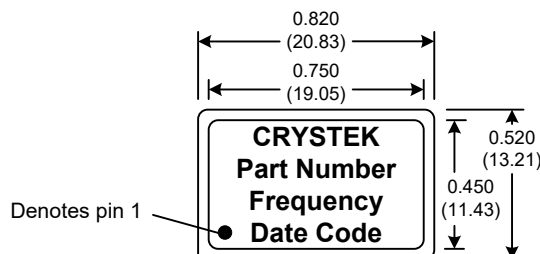
CCO-083-100.000 = 3.3V, 0°C to +70°C (±25ppm), 100 MHz

CVXO-085XC-100.000 = 5.0V, -40°C to +85°C (±50ppmAPR), +5dBm, 100 MHz



Dimensions in inches (mm)

All dimensions are Max unless otherwise specified.



PIN	Connection
1	N/C or Volt Cntrl
7	GND
8	Output
14	Vdd

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Specifications subject to change without notice.

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[CCO-083-100.000](#) [CCO-083-16.000](#) [CCO-083-200.000](#) [CCO-083-64.000](#)