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.
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
- -40°C to +85°C
- -45°C to 90°C

Storage:
(Option X)

Input Voltage:
(Option 3) 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:

Load:
50 Ω

Power (std):
0 dBm Min into 50 Ω
+3 dBm Min into 50 Ω
+5 dBm Min into 50 Ω
+7 dBm Min into 50 Ω

Harmonics:
-20 dBc Max

Sub-Harmonics:
None

Enable/Disable:
None

Phase Noise Floor:
-150dBc Typical

Aging:
<3ppm 1st year, <1ppm thereafter

CCO-083/085 Options Temperature Range:
0°C to +70°C (±25ppm Max)
-40°C to +85°C (±50ppm APR)

CVXO-083/085 Frequency Pulling:
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 (±50ppm APR), +5dBm, 100 MHz

Specifications subject to change without notice.

Dimensions

All dimensions are Max unless otherwise specified.

<table>
<thead>
<tr>
<th>PIN</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>N/C or Volt Cntrl</td>
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<tr>
<td>7</td>
<td>GND</td>
</tr>
<tr>
<td>8</td>
<td>Output</td>
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<tr>
<td>14</td>
<td>Vdd</td>
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Date: 19-Jan-2017
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