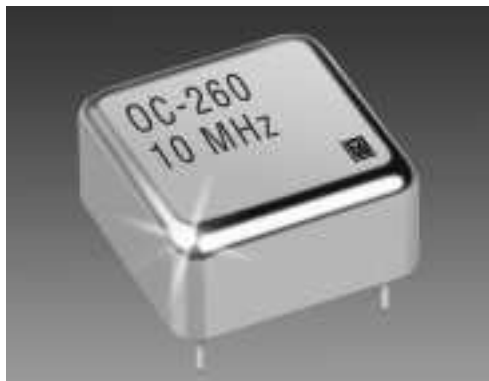


# Oven Controlled Crystal Oscillators (OCXO's)

## OC-260 Series (CO-760)



### Description:

The OC-260 Series OCXO offers excellent temperature stability and aging in a 1" x 1" x 0.52" package.

### Features:

- Frequencies: 5, 10, 12.8, 13, 16.384, 19.44, 20, 20.48 MHz
- Stabilities: As low as  $\pm 1 \times 10^{-8}$
- Temperature Range: As wide as  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- Package: 1.0" x 1.0" x 0.52"
- Output: HCMOS, Sinewave
- Supply Voltage: 5 Volts or 3.3 Volts

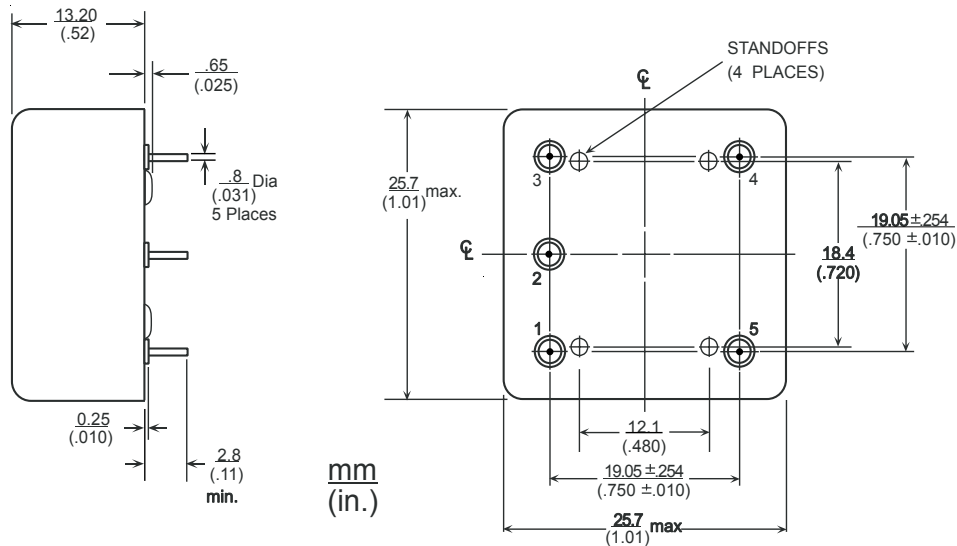
### Performance Characteristics

Parameter	Characteristics
Standard Frequencies:	5.0, 10.0, 12.8, 13.0, 16.384, 19.44, 20.0, 20.48 MHz. Available from 1 to 80 MHz.
Package Size:	25.7 x 25.7x 13.2 mm (1.0" x 1.0" x 0.52")
Supply Voltage:	<b>C</b> =5 Vdc $\pm 5\%$ <span style="margin-left: 2em;"><b>D</b>=3.3 Vdc <math>\pm 5\%</math> (HCMOS output only)</span>
Input Power (steady state):	<1.5W @ $+25^{\circ}\text{C}$ ( $-20^{\circ}\text{C}$ / $+70^{\circ}\text{C}$ )
Input Power (turn-on):	<3W ( $-20^{\circ}\text{C}/+70^{\circ}\text{C}$ )
Output Type:	<b>A</b> : HCMOS <span style="margin-left: 2em;"><b>J</b>: Sinewave; +7 dBm into 50 ohm (+5V supply only)</span>
Output Level:	5 V: "0" <0.5 V, "1" >4.5 V <span style="margin-left: 1em;">3.3 V: "0" &lt;0.3 V, "1" &gt;3.0 V</span> (HCMOS output)
Rise/Fall Time $t_r/t_f$ :	<10 ns (10% - 90%, HCMOS)
Symmetry (Duty/Cycle):	50/50 $\pm 10\%$ (@50% Vdd, HCMOS)
Harmonics/subs:	-20 dBc (for sinewave output)
Temperature Stability:	<b>B-208</b> : $\pm 2 \times 10^{-8}$ over 0/50 $^{\circ}\text{C}$ <b>B-107</b> : $\pm 1 \times 10^{-7}$ over 0/50 $^{\circ}\text{C}$ <b>D-408</b> : $\pm 4 \times 10^{-8}$ over -20/70 $^{\circ}\text{C}$ <b>D-107</b> : $\pm 1 \times 10^{-7}$ over -20/70 $^{\circ}\text{C}$ <b>F-107</b> : $\pm 1 \times 10^{-7}$ over -40/85 $^{\circ}\text{C}$ <b>F-207</b> : $\pm 2 \times 10^{-7}$ over -40/85 $^{\circ}\text{C}$ Note: Tighter stability options are available - contact factory.
Aging:	<b>A</b> : $1 \times 10^{-8}$ /day, $2 \times 10^{-6}$ /year <span style="margin-left: 2em;"><b>C</b>: <math>1 \times 10^{-9}</math>/day, <math>3 \times 10^{-7}</math>/year</span> <b>B</b> : $3 \times 10^{-9}$ /day, $1 \times 10^{-6}$ /year
Short Term Stability (Allan Deviation):	$5 \times 10^{-11}$ /second (with aging <b>A</b> or <b>B</b> ) $1 \times 10^{-11}$ /second (with aging <b>C</b> )
Phase Noise: (typical @ 10 MHz)	-110 dBc/Hz @ 10 Hz <span style="margin-left: 2em;">-150 dBc/Hz @ 10 kHz</span> -130 dBc/Hz @ 100 Hz <span style="margin-left: 2em;">-150 dBc/Hz @ 50 kHz</span> -145 dBc/Hz @ 1 kHz
Frequency vs. Supply:	$5 \times 10^{-9}$ /percent (with Aging <b>A</b> or <b>B</b> ); $2 \times 10^{-9}$ /percent (with Aging <b>C</b> )
Electrical Frequency Adjust:	$10 \times 10^{-6}$ typical range (with Aging <b>A</b> or <b>B</b> ) $2 \times 10^{-6}$ typical range (with Aging <b>C</b> )
Mechanical Configuration:	Pins for PCB mounting

# Oven Controlled Crystal Oscillators (OCXO's)

## OC-260 Series (CO-760)

### Outline Drawing



OCXO

### Pin Out Information

Pin	Function
1	Output
2	GND, Case
3	Electrical Frequency Adjustment Input or N/C*
4	N/C or Reference Voltage Output*
5	Supply Voltage
Pin numbers are for reference only, and may not appear on unit.	

### Ordering Information

