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 ±1 x 10⁻⁸

• Temperature Range: As wide as -40°C to +85°C

Package: 1.0" x 1.0" x 0.52"Output: HCMOS, Sinewave

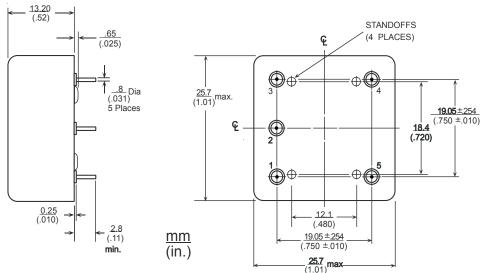
• Supply Voltage: 5 Volts or 3.3 Volts

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:	C=5 Vdc ±5% D=3.3 Vdc ±5% (HCMOS output only)	
Input Power (steady state):	<1.5W @ +25°C (-20°C / +70°C)	
Input Power (turn-on):	<3W (-20°C/+70°C)	
Output Type:	A: HCMOS J: Sinewave; +7 dBm into 50 ohm (+5V supply only)	
Output Level:	5 V: "0" <0.5 V, "1" >4.5 V 3.3 V: "0" <0.3 V, "1" >3.0 V (HCMOS output)	
Rise/Fall Time t _r /t _f :	<10 ns (10% - 90%, HCMOS)	
Symmetry (Duty/Cycle):	50/50 ±10% (@50% Vdd, HCMOS)	
Harmonics/subs:	-20 dBc (for sinewave output)	
Temperature Stability:	B-208: ±2 x 10 ⁻⁸ over 0/50°C B-107: ±1 x 10 ⁻⁷ over 0/50°C D-408: ±4 x 10 ⁻⁸ over -20/70°C D-107: ±1 x 10 ⁻⁷ over -20/70°C F-107: ±1 x 10 ⁻⁷ over -40/85°C F-207: ±2 x 10 ⁻⁷ over -40/85°C Note: Tighter stability options are available - contact factory.	
Aging:	A : 1 x 10 ⁻⁸ /day, 2x10 ⁻⁶ /year	
Short Term Stability (Allan Deviation):	5 x 10 ⁻¹¹ /second (with aging A or B) 1 x 10 ⁻¹¹ /second (with aging C)	
Phase Noise: (typical @ 10 MHz)	-110 dBc/Hz @ 10 Hz	
Frequency vs. Supply:	5 x 10 ⁻⁹ /percent (with Aging A or B); 2 x 10 ⁻⁹ /percent (with Aging C)	
Electrical Frequency Adjust:	10 x 10 ⁻⁶ typical range (with Aging A or B) 2 x 10 ⁻⁶ typical range (with Aging C)	
Mechanical Configuration:	Pins for PCB mounting	

OC-260 Series (CO-760)

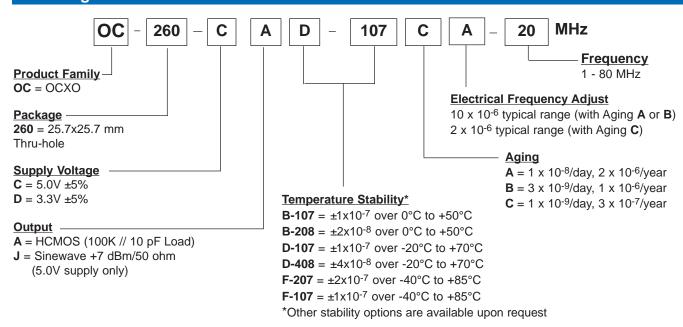
Outline Drawing



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.	

^{*} custom part number to be assigned

Ordering Information



OCXO