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

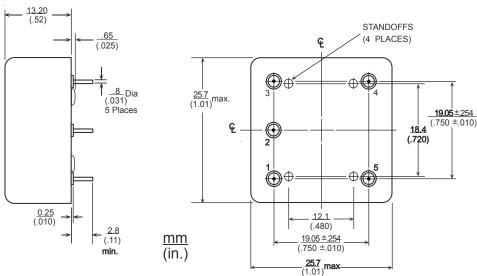
Performance Characteristics

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

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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

