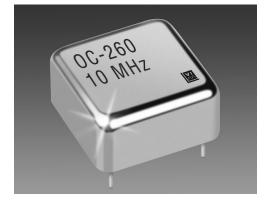
# **OC-260 Series (CO-760)**



#### **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<sup>-8</sup>
- 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

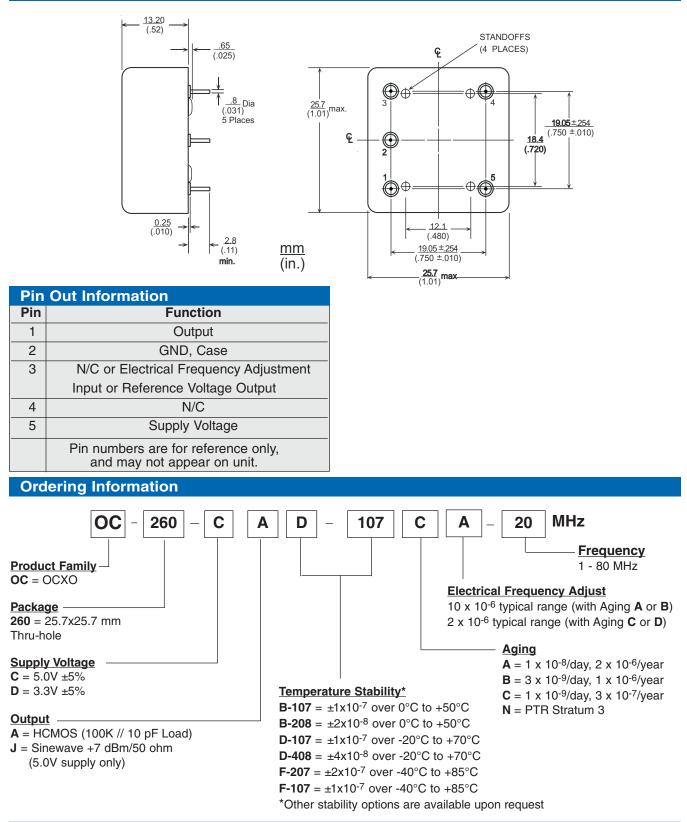
## **Performance Characteristics**

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:	<b>C</b> =5 Vdc ±5% <b>D</b> =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 <sub>r</sub> /t <sub>f</sub> :	<10 ns (10% - 90%, HCMOS)
Symmetry (Duty/Cycle):	50/50 ±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°C <b>B-107</b> : $\pm 1 \times 10^{-7}$ over 0/50°C <b>D-408</b> : $\pm 4 \times 10^{-8}$ over -20/70°C <b>D-107</b> : $\pm 1 \times 10^{-7}$ over -20/70°C <b>F-107</b> : $\pm 1 \times 10^{-7}$ over -40/85°C <b>F-207</b> : $\pm 2 \times 10^{-7}$ over -40/85°C Note: Tighter stability options are available - contact factory.
Aging:	A: 1 x 10 <sup>-8</sup> /day, 2x10 <sup>-6</sup> /year C: 1 x 10 <sup>-9</sup> /day, 3x10 <sup>-7</sup> /year
	<b>B</b> : 3 x 10 <sup>-9</sup> /day, 1x10 <sup>-6</sup> /year <b>N</b> : PTR Stratum 3
Short Term Stability (Allan Deviation):	5 x 10 <sup>-11</sup> /second (with aging <b>A</b> or <b>B</b> ) 1 x 10 <sup>-11</sup> /second (with aging <b>C</b> or <b>D</b> )
Phase Noise: (typical @ 10 MHz)	-110 dBc/Hz @ 10 Hz -150 dBc/Hz @ 10 kHz   -130 dBc/Hz @ 100 Hz -150 dBc/Hz @ 50 kHz   -145 dBc/Hz @ 1 kHz -150 dBc/Hz @ 50 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> or <b>D</b> )
Electrical Frequency Adjust:	10 x 10 <sup>-6</sup> typical range (with Aging <b>A</b> or <b>B</b> ) 2 x 10 <sup>-6</sup> typical range (with Aging <b>C</b> or <b>D</b> )
Mechanical Configuration:	Pins for PCB mounting

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## **OC-260 Series (CO-760)**

## **Outline Drawing**



OCXO