



The OX-174 is a low phase noise, high-stability ovenized crystal oscillator in a 28 x 38 mm package. The oscillator has a noise floor of -175 dBc/Hz, and typical ADEV below 2E-12 for t=0.1 to 100 s. The OX-174 is a member of the OX-17 oscillator series. Other oscillators in the series include the OX-170 standard oscillator, OX-171 high stability oscillator, OX-172 optimized for 1588 solutions, and the OX-175 low phase noise, high frequency oscillator. The Vectron design team will also help develop custom solutions where performance optimization is required for specific applications. Please contact the factory for customization options.

Features

- Reflow Process Compatible
- Temperature Stability to 5 ppb
- Frequency Range 5 to 20 MHz
- Standard Frequency:10 MHz
- CMOS and Sinewave Options Available

Applications

- Military Radar
- · Instrumentation and Test Equipment
- Synthesizers
- Military Communication Equipment
- DRO references
- Satellite Communications

Performance Specifications

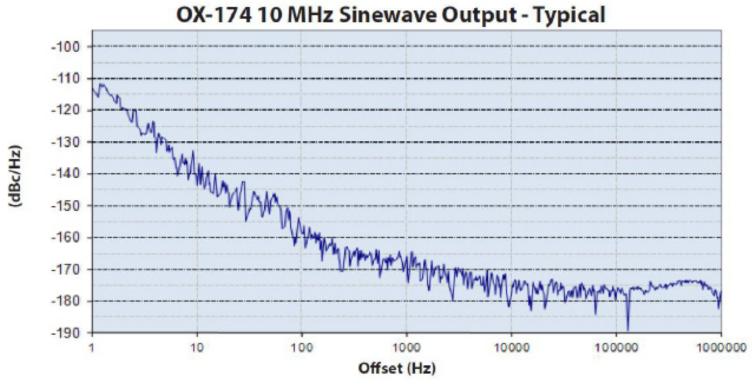
Phase Noise Ordering Codes at 10 MHz , Sinewave Output						
Frequency Offset (Hz)	А	В	C (12V only) D (5V on	nly) Unit	Condition
1	-95	-100	-105	-105	dBc/Hz	Maximum values
10	-125	-130	-135	-135	dBc/Hz	All EFC settings
100	-150	-155	-157	-157	dBc/Hz	
1000	-160	-165	-167	-167	dBc/Hz	
10,000	-170	-170	-175	-172	dBc/Hz	
100,000	-170	-170	-175	-173	dBc/Hz	
	Phase No	ise Orderir	ng Codes at 1	10 MHz, CM	OS Output	
Frequency Offset (Hz) A B C Unit Condition					Condition	
1	-95	-100	-105	dBc/Hz	Maximum values All EFC settings (5V only)	
10	-125	-130	-135	dBc/Hz		
100	-150	-155	-157	dBc/Hz		
1000	-160	-160	-160	dBc/Hz		
10,000	-160	-165	-165	dBc/Hz		
100,000	-160	-165	-165	dBc/Hz		

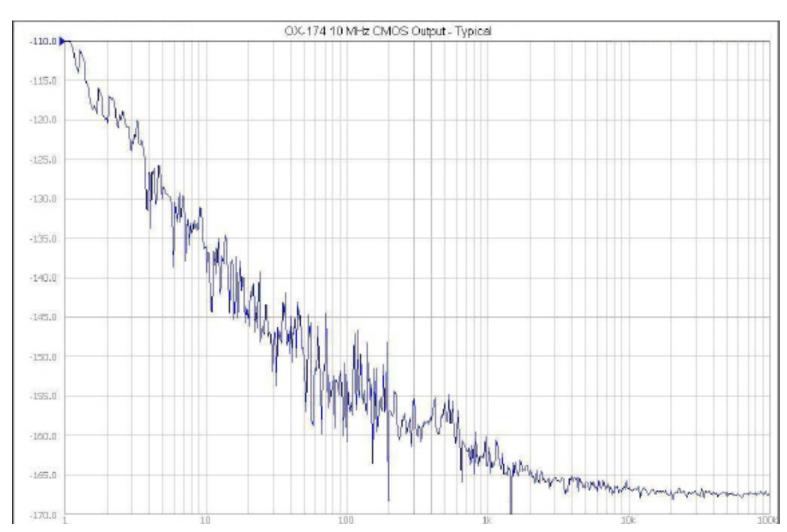
Performance Specifications

Parameter	Min	Typical	Max	Units	Condition	
Allan Deviation		2 1 1.5 1.8 2	5 3 4 5 5	E-12 E-12 E-12 E-12 E-12	0.1s tau 1 s tau 10 s tau 100 s tau 1000 s tau	@ 10MHz
For oscillators with TDEV and MTIE requirements please review the OX-172 datasheet.						

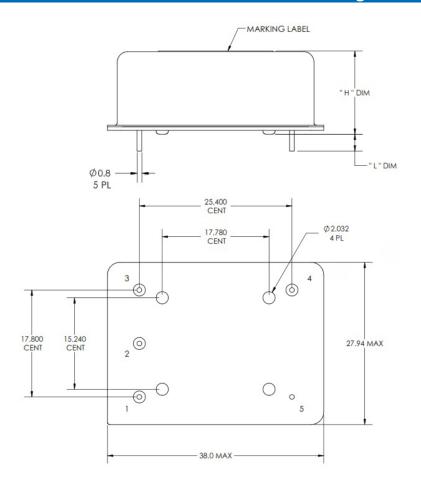
Frequency Stabilities ¹ (Stabilities listed for 10 MHz. For stabilities above 10 MHz values may degrade. Please contact factory)					
Parameter	Min	Typical	Max	Units	Condition
vs. Operating Temperature	-5 10		+5 -10	ppb	-20 to +70°C
Range (referenced to +25°C)	-10	For		ppb	-40 to +85°C
1 1	F0	FOI		1	ew the OX-171 datasheet.
Initial Tolerance vs. Supply Voltage Change	-50 -2		+50 +2	ppb ppb	at time of shipment, nominal EFC $V_s \pm 5\%$
vs. Load Change	- -2		+2	ppb	Load ±5%
vs. Aging / Day	-0.5		+0.5	ppb	after 7 days operation
vs. Aging / 1 st Year	-100		+100	ppb	after 7days operation
vs. Aging / Year (following years)	-30		+30	ppb	
Retrace ²	-10		+10	ppb	
Warm-up Time			5	minutes	to ±10ppb of final frequency (1 hour reading) @ +25°C
		Sup	oply Voltage	e (Vs)	
Parameter	Min	Typical	Max	Units	Condition
Supply Voltage (Vs)	4.75	5.0	5.25	VDC	ordering option D
Supply voltage (vs)	11.4	12.0	12.6	VDC	ordering option B
			3.5	Watts	during warm-up, all temperatures
Power Consumption			1.8	Watts	steady state @ +25°C
Tower consumption		3.3		Watts	steady state @ -40°C
		0.5		Watts	steady state @ +85°C
			RF Outpu	t	
Start Time		1		S	time required to achieve 90% of amplitude
Signal		HCI	MOS		5 Volt only
Load		15		pF	
Signal Level (Vol)			0.5		
Signal Level (Voh)	3.5				
Duty Cycle	45		55	%	@ (Voh-Vol)/2
Rise and Fall Time (Tr/Tf)			10	ns	
Signal		Sine	Wave		
Load		50		Ω	
Output Power	+7	+8	+10	dBm	Vs=12VDC
Output i Owei	+4	+5	+7	dBm	Vs=5VDC
Harmonics			-30	dBc	
Spurious			-80	dBc	

Linearity 15 96 Positive Posit							
Tuning range			Frequ	uency Tunin	g (EFC)		
Linearity Tuning Slope Positive Bandwidth Modulation 150 Bandwidth Wiss-5.0 VDC With Vs = 5.0 VDC With Vs = 12 VDC With Vs = 5.0	Parameter	Min	Typical	Max	Units	Condition	
Tuning Slope	Tuning range	±400		±800	ppb	(fixed frequency option available)	
Input Impedance 100	Linearity		15		%		
Bandwidth Modulation 150	Tuning Slope		Pos	itive			
Control Voltage Range 0.0	Input Impedance		100		kOhm		
Control Voltage Range 0.0 10 VDC with Vs=12.0 VDC Reference Voltage Output (Vref) 4.26 4.35 4.44 VDC with Vs = 5.0 VDC With Vs = 12 VDC The OX-174 series can be configured without a voltage reference. Please contact the factory for ordering information. Additional Parameters Parameter Min Typical Max Units Condition g-sensitivity 1.5 ppb/g g-sensitivity of 0.5 ppb/g available in this package size. Please contact factory for ordering information. For g-sensitivity < 0.5 ppb/g please review the OX-043 series. Weight 25 g with Vs = 5.0 VDC Absolute Maximum Ratings Supply Voltage (Vs) 15.0 VDC with Vs = 12 VDC Output Load 25 open O Sinewave CMOS Operable Temperature Range -55 vPS vC CMOS For G-sensitivity and Product Classification Operable temperature range implies the operating temperature range with not be specification compliant outside the operating temperature range. Environmental and Product Classification MIL-STD-202, Method 213, Condition I-D Humidity MIL-STD-202, Method 214, Condition I-D Humidity MIL-STD-202, Method 113, Condition B, 100% rh Seal MIL-STD-202, Method 113, Condition D, hermetic, washable Altitude MIL-STD-202, Method 113, Condition D, hermetic, washable MIL-STD-202, Method 103, Condition B, 100% rh Seal MIL-STD-202, Method 103, Condition D, hermetic, washable MIL-STD-202, Method 214, Condition C (5 bends at 45%, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)	Bandwidth Modulation	150			Hz		
Reference Voltage Output (Vref) Reference Voltage Output (Vref) 4.26	Cantual Valta na Dan na	0.0		4.35	VDC	with Vs=5.0 VDC	
Reference Voltage (Vref) 9.8 10 10.2 VDC with Vs = 5.0 VDC with Vs = 12 VDC The OX-174 series can be configured without a voltage reference. Please contact the factory for ordering information. Additional Parameters Parameter Min Typical Max Units Condition g-sensitivity 1.5 ppb/g g-sensitivity of 0.5 ppb/g available in this package size. Please contact factory for ordering information. For g-sensitivity < 0.5 ppb/g please review the OX-043 series. Weight 25 g Absolute Maximum Ratings Supply Voltage (Vs) 15.0 VDC with Vs= 5.0 VDC with Vs= 5.0 VDC Output Load 25 open Operable Temperature Range Operable Temperature Range -55 -95 -95 CMOS Operable Temperature Range Shock (Endurance) MIL-STD-202, Method 214, Condition I-D Humidity MIL-STD-202, Method 214, Condition D, hermetic, washable Altitude MIL-STD-202, Method 115, Condition D, hermetic, washable Altitude MIL-STD-202, Method 110, Sendous I S	Control Voltage Range	0.0		10	VDC	with Vs=12.0 VDC	
Reference Voltage (Vref) 9,8 10 10,2 VDC with Vs = 12 VDC The OX-174 series can be configured without a voltage reference. Please contact the factory for ordering information. Additional Parameters Parameter Min Typical Max Units Condition g-sensitivity g-sensitivity of 0.5 ppb/g available in this package size. Please contact factory for ordering information. For g-sensitivity <0.5 ppb/g please review the OX-043 series. Weight Absolute Maximum Ratings Supply Voltage (Vs) Absolute Maximum Ratings Supply Voltage (Vs) 15,0 VDC with Vs= 5.0 VDC with Vs= 12 VDC Output Load 25 open Operable Temperature Range Operable Temperature Range -55 PF CMOS Operable Temperature Range -55 Procession of Condition Agreements of Condition Co			Referenc	e Voltage Οι	itput (Vref)		
1 10.2 VDC with Vs = 12 VDC The OX-174 series can be configured without a voltage reference. Please contact the factory for ordering information. Additional Parameters Parameter Min Typical Max Units Condition g-sensitivity 1,5 ppb/g g-sensitivity 1,5 ppb/g g-sensitivity 0,5 ppb/g available in this package size. Please contact factory for ordering information. For g-sensitivity <0.5 ppb/g please review the OX-043 series. Weight 25 g Absolute Maximum Ratings Supply Voltage (Vs) 15.0 VDC with Vs = 12 VDC Output Load 25 open Ω Sinewave CMOS Operable Temperature Range -55 open CMOS Operable Temperature Range -55 open CMOS Poperable Temperature Range MIL-STD-202, Method 213, Condition J. 30g 11 ms Sine Vibration (Endurance) MIL-STD-202, Method 214, Condition I. D Humidity MIL-STD-202, Method 2112, Condition D, hermetic, washable Altitude MIL-STD-202, Method 211, Condition D, hermetic, washable MIL-STD-202, Method 210, Condition D, Benzoec Resistance to Soldering Heat MIL-STD-202, Method 210, Condition D, Benzoec MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)	D. () () () ()	4.26	4.35	4.44	VDC	with Vs = 5.0 VDC	
Parameter Min Typical Max Units Condition	Reference Voltage (Vref)	9.8	10	10.2	VDC	with Vs =12 VDC	
Parameter Min Typical Max Units Condition g-sensitivity 1.5 ppb/g g-sensitivity of 0.5 ppb/g available in this package size. Please contact factory for ordering information. For g-sensitivity <0.5 ppb/g please review the OX-043 series. Weight 25 g Absolute Maximum Ratings Supply Voltage (Vs) 6.5 VDC with Vs= 5.0 VDC Output Load 25 open \(\text{O} \) Sinewave \(\text{CMOS} \) Operable Temperature Range -55 PF CMOS Operable Temperature Range MIL-STD-202, Method 213, Condition I, 30g 11 ms Sine Vibration (Endurance) MIL-STD-202, Method 211, Condition ID MIL-STD-202, Method 112, Condition ID MIL-STD-202, Method 112, Condition D, hermetic, washable Altitude MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)	The OX-174 series can be configu	red without a v	oltage refere	nce. Please o	ontact the facto	ory for ordering information.	
g-sensitivity 1.5 ppb/g g-sensitivity of 0.5 ppb/g available in this package size. Please contact factory for ordering information. For g-sensitivity <0.5 ppb/g please review the OX-043 series. Weight 25 g			Addi	itional Para	meters		
g-sensitivity g-sensitivity of 0.5 ppb/g available in this package size. Please contact factory for ordering information. For g-sensitivity <0.5 ppb/g please review the OX-043 series. Weight 25 g Absolute Maximum Ratings Supply Voltage (Vs) Absolute Maximum Ratings Sinewave CMOS Operable temperature range implies the device will continue to operate with no long-term damage to unit; however, it will not be specification compliant outside the operating temperature range. Environmental and Product Classification Shock (Endurance) MIL-STD-202, Method 213, Condition J, 30g 11 ms Since Vibration (Endurance) MIL-STD-202, Method 213, Condition I-D Humidity MIL-STD-202, Method 213, Condition ID Humidity MIL-STD-202, Method 112, Condition ID MIL-STD-202, Method 112, Condition ID, hermetic, washable Altitude MIL-STD-202, Method 210, Condition A, B, C Terminal Strength MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)	Parameter	Min	Typical	Max	Units	Condition	
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For g-sensitivity <0.5 ppb/g please review the OX-043 series. Weight 25 g	<u>- </u>	e in this packac	ı ıe size. Pleas	e contact fac		· · · -	
Absolute Maximum Ratings Supply Voltage (Vs) 6.5 VDC with Vs= 5.0 VDC Output Load 25 Open Ω Sinewave CMOS Operable Temperature Range -55 +95 °C Environmental and Product Classification Shock (Endurance) MIL-STD-202, Method 213, Condition J, 30g 11 ms Sine Vibration (Endurance) MIL-STD-202, Method 201 and 204, Condition A, except 5g to 500 Hz, 1 sweep each axis Random Vibration (Endurance) MIL-STD-202, Method 103, Condition B, 100% rh Seal MIL-STD-202, Method 103, Condition D, hermetic, washable Altitude MIL-STD-202, Method 105, sea level to space Resistance to Soldering Heat MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 16 (fully compliant)							
Supply Voltage (Vs) 15.0 VDC with Vs= 12 VDC	Weight			25	g		
Supply Voltage (Vs) 15.0 VDC with Vs= 12 VDC Output Load 25 Open 50 pF CMOS Operable temperature range implies the device will continue to operate with no long-term damage to unit; however, it will not be specification compliant outside the operating temperature range. Environmental and Product Classification Shock (Endurance) MIL-STD-202, Method 213, Condition J, 30g 11 ms Sine Vibration (Endurance) MIL-STD-202, Method 201 and 204, Condition A, except 5g to 500 Hz, 1 sweep each axis Random Vibration (Endurance) MIL-STD-202, Method 103, Condition I-D Humidity MIL-STD-202, Method 103, Condition B, 100% rh Seal MIL-STD-202, Method 112, Condition D, hermetic, washable Altitude MIL-STD-202, Method 210, Condition A, B,C Terminal Strength MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)			Absolu	te Maximur	n Ratings		
Output Load 25	6 L.V.I. (V.)			6.5	VDC	with Vs= 5.0 VDC	
Operable Temperature Range -55 +95 COperable temperature range implies the device will continue to operate with no long-term damage to unit; however, it will not be specification compliant outside the operating temperature range. Environmental and Product Classification Shock (Endurance) MIL-STD-202, Method 213, Condition J, 30g 11 ms Sine Vibration (Endurance) MIL-STD-202, Method 201 and 204, Condition A, except 5g to 500 Hz, 1 sweep each axis Random Vibration (Endurance) MIL-STD-202, Method 103, Condition B, 100% rh Seal MIL-STD-202, Method 112, Condition D, hermetic, washable Altitude MIL-STD-202, Method 105, sea level to space Resistance to Soldering Heat MIL-STD-202, Method 210, Condition A,B,C Terminal Strength MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)	Supply Voltage (Vs)			15.0	VDC	with Vs= 12 VDC	
Operable Temperature Range -55 -55 -95 -55 -95 -95 -55 -95 -95 -95 -96 Cmos Operable temperature range implies the device will continue to operate with no long-term damage to unit; however, it will not be specification compliant outside the operating temperature range. Environmental and Product Classification Shock (Endurance) MIL-STD-202, Method 213, Condition J, 30g 11 ms Sine Vibration (Endurance) MIL-STD-202, Method 201 and 204, Condition A, except 5g to 500 Hz, 1 sweep each axis Random Vibration (Endurance) MIL-STD-202, Method 214, Condition I-D Humidity MIL-STD-202, Method 103, Condition B, 100% rh Seal MIL-STD-202, Method 112, Condition D, hermetic, washable Altitude MIL-STD-202, Method 210, Condition A,B,C Terminal Strength MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)	0 1 11 1	25		open	Ω	Sinewave	
Operable Temperature Range -55 +95 C device will continue to operate with no longterm damage to unit; however, it will not be specification compliant outside the operating temperature range. Environmental and Product Classification Shock (Endurance) MIL-STD-202, Method 213, Condition J, 30g 11 ms Sine Vibration (Endurance) MIL-STD-202, Method 201 and 204, Condition A, except 5g to 500 Hz, 1 sweep each axis Random Vibration (Endurance) MIL-STD-202, Method 214, Condition I-D Humidity MIL-STD-202, Method 103, Condition B, 100% rh Seal MIL-STD-202, Method 112, Condition D, hermetic, washable Altitude MIL-STD-202, Method 105, sea level to space Resistance to Soldering Heat MIL-STD-202, Method 210, Condition A,B,C Terminal Strength MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)	Output Load				pF	CMOS	
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Random Vibration (Endurance) MIL-STD-202, Method 214, Condition I-D Humidity MIL-STD-202, Method 103, Condition B, 100% rh Seal MIL-STD-202, Method 112, Condition D, hermetic, washable Altitude MIL-STD-202, Method 105, sea level to space Resistance to Soldering Heat MIL-STD-202, Method 210, Condition A,B,C Terminal Strength MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)	Shock (Endurance)	MIL-STD-202,	Method 213	, Condition J	, 30g 11 ms		
Humidity MIL-STD-202, Method 103, Condition B, 100% rh Seal MIL-STD-202, Method 112, Condition D, hermetic, washable Altitude MIL-STD-202, Method 105, sea level to space Resistance to Soldering Heat MIL-STD-202, Method 210, Condition A,B,C Terminal Strength MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)	Sine Vibration (Endurance)	MIL-STD-202, Method 201 and 204, Condition A, except 5g to 500 Hz, 1 sweep each axis					
Seal MIL-STD-202, Method 112, Condition D, hermetic, washable Altitude MIL-STD-202, Method 105, sea level to space Resistance to Soldering Heat MIL-STD-202, Method 210, Condition A,B,C Terminal Strength MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)	Random Vibration (Endurance)						
Altitude MIL-STD-202, Method 105, sea level to space Resistance to Soldering Heat MIL-STD-202, Method 210, Condition A,B,C Terminal Strength MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)	Humidity						
Resistance to Soldering Heat MIL-STD-202, Method 210, Condition A,B,C Terminal Strength MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)	Seal	MIL-STD-202, Method 112, Condition D, hermetic, washable					
Terminal Strength MIL-STD-202, Method 211, Condition C (5 bends at 45°, 2 lbs) Moisture Sensitive Level 1 RoHS 6 (fully compliant)	Altitude	MIL-STD-202, Method 105, sea level to space					
Moisture Sensitive Level 1 RoHS 6 (fully compliant)	Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition A,B,C					
RoHS 6 (fully compliant)	Terminal Strength						
	Moisture Sensitive Level						
	RoHS						
Storage lemperature Kange -55 +125 °C	Storage Temperature Range	-55		+125	°C		





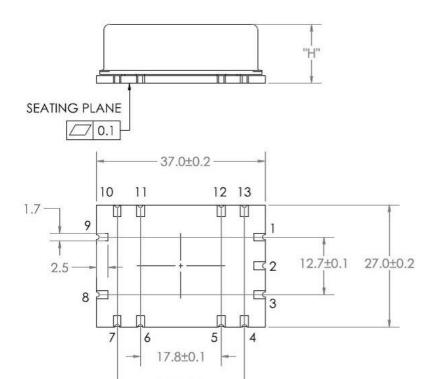
Outline Drawing / Enclosure



Through hole Package configuration A					
	Height "H"	Pin Length "L"			
0	18.2 max	4.5 mm min			

Pin Connections					
1	Electronic Frequency Control Input (EFC) No Connect for Fixed frequency Oscillators				
2	Reference Voltage (Vref)				
3	Supply Voltage Input (Vs)				
4	RF Output				
5	Ground (Case)				

Dimensions in mm



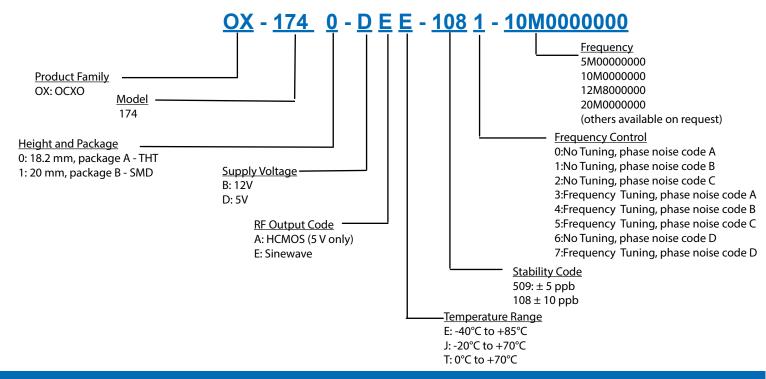
-27.9±0.1

Package configuration B					
	Height "H"	Pin Length "L"			
1	20.3 max	n/a			
	•				

Surface mount

Pin Connections					
4,5,6,7, 11,12,13	No Connect				
1	Electronic Frequency Control Input (EFC) No Connect for Fixed frequency Oscillators				
2	Reference Voltage (Vref)				
3	Supply Voltage Input (Vs)				
8	RF Output				
9,10	Ground (Case)				

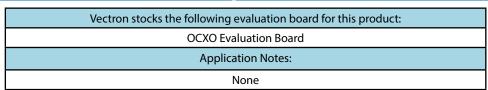
Ordering Information³



Additional Ordering Options

Additional ordering options available include custom aging rates, custom temperature ranges, custom temperature stabilities, custom phase noise requirements, improved g-sensitivity, and oscillators with no voltage reference output on pin 2. These modifications require a custom dash number - please contact the factory for additional information.

Design Tools



Notes:

- 1. Unless otherwise stated, all values are valid after warm-up time and refer to typical conditions for supply voltage, frequency control voltage, load, and temperature (25°C).
- 2. Retrace is defined as the frequency difference between the end of two 24 hour on power periods with a 24 hour off period in between while at a constant temperature.
- Not all options and codes available at all frequencies.

Contact Information

USA:

100 Watts Street Mt Holly Springs, PA 17065 Tel: 1.717.486.3411 Fax: 1.717.486.5920

Europe:

Landstrasse 74924 Neckarbischofsheim Germany Tel: +49 (0) 7268.801.0 Fax: +49 (0) 7268.801.281



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