

OX260 Series

OCXO, Sine wave, HCMOS, 20.4 x 12.7 x 6.5mm (14pin DIL package)



- Stratum 3E
- Small size through hole package
- Excellent frequency vs stability
- Tighter aging options are available

Output characteristics		
Parameter	Specification	
Frequency range	5.0MHz ~ 100.0MHz	
	Limited frequencies available: 10MHz, 12.8MHz, 13MHz, 15MHz, 16.32MHz, 16.384MHz, 19.2MHz, 19.44MHz, 20MHz, 25.0MHz, 26MHz, 30.72MHz, 32.768MHz, 38.88MHz, 40MHz, 50MHz, 100MHz Contact us for custom frequency requirement	
Operating voltages	3.3V	
Output waveform	Sine wave	HCMOS
Output load	50.0Ω	15pF
Output amplitude (dBm) Peak-Peak(V)	5.0dBm 1.1V	-
	8.0dBm 1.6V	-
Harmonic	≤-40.0dBc	-
Spurious	≤-75.0dBc	-
Frequency stability (Typical, @ 10.00MHz)		
Vs Operating temperature	±5.0ppb ~ ±50.0ppb	Table 1
Day aging	±1.0ppb ~ ±5.0ppb	Table 1
Year aging	±100.0ppb ~ ±500.0ppb	Table 1
Stability vs Voltage	±5.0ppb ~ ±20.0ppb	Table 1
Stability vs Load	±5.0ppb ~ ±20.0ppb	Table 1
Short-term stability	0.1ppb/S	In stable temp. Without EMI/MEC or other interferences, test at 25°C after power on for one hour
Power consumption @ 25°C		
Warm-up power consumption	2.0W	
Warm-up time	2.0 minute max	
Stable power consumption	0.6W max	
Voltage control characteristics		
Frequency pulling range (min)	±5.0ppm~±10.0ppm	
Central control voltage	1.65V, 2.5V	
Linearity	≤10%	Positive slope
Phase noise (Typical @ 10.00MHz)		
10Hz	-100dBc/Hz	
100Hz	-130dBc/Hz	
1kHz	-150dBc/Hz	
10kHz	-150dBc/Hz	
100kHz	-150dBc/Hz	
1MHz	-155dBc/Hz	
Environmental characteristics		
Operable working temperature	-40°C ~ +105°C	
Storage temperature	-55°C ~ +105°C	
Vibration	Amplitude 0.75mm; acceleration: 10g; 10Hz~500Hz; a cycle per 30 min, test for 2 hr in 3 directions(X,Y,Z), IEC 68-2-06 Test Fc.	
Shock	50g; 11ms; half sine wave (3 directions X,Y,X), IEC 68-2-27 test Ea/severity 50A	

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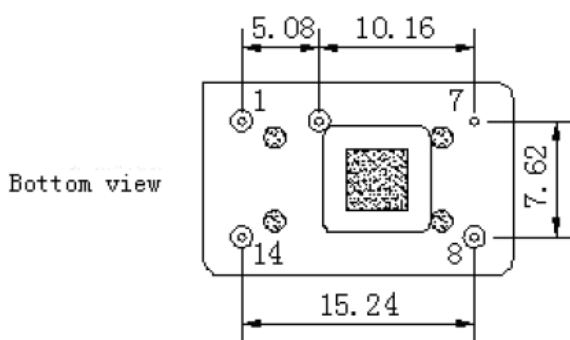
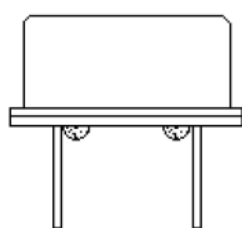


Table 1: Frequency stability selection (Typical, @ 10.00MHz)

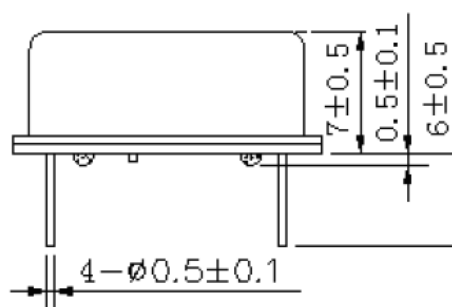
Temperature (°C)	Temperature stability (ppb)	Day aging (ppb)	Year aging (ppb)	Stability vs Voltage (ppb)	Stability vs Load (ppb)
-20°C ~ +70	±5.0	±1.0	±100.0	±5.0	±5.0
-20°C ~ +70	±10.0	±1.0	±100.0	±10.0	±10.0
-20°C ~ +70	±50.0	±5.0	±500.0	±20.0	±20.0
-30°C ~ +75	±5.0	±1.0	±100.0	±5.0	±5.0
-30°C ~ +75	±10.0	±1.0	±100.0	±10.0	±10.0
-30°C ~ +75	±50.0	±5.0	±500.0	±20.0	±20.0
-40°C ~ +85	±5.0	±1.0	±100.0	±5.0	±5.0
-40°C ~ +85	±10.0	±1.0	±100.0	±10.0	±10.0
-40°C ~ +85	±25.0	±5.0	±500.0	±20.0	±20.0
-40°C ~ +85	±50.0	±5.0	±500.0	±20.0	±20.0
-40°C ~ +105	±10.0	±10.0	±500.0	±10.0	±10.0
-40°C ~ +105	±20.0	±10.0	±500.0	±10.0	±10.0
-40°C ~ +105	±50.0	±5.0	±500.0	±10.0	±10.0

Note : Tighter aging options: ±1.0ppb day aging and ±100.0ppb year aging available for limited frequency, please enquire

Mechanical dimensions and Pin functions



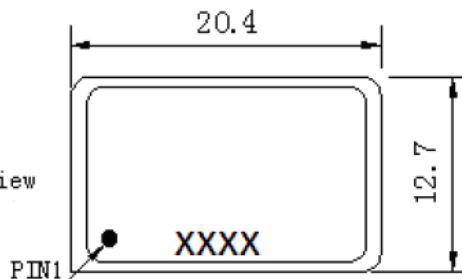
Side view



PIN FUNCTION

PIN	FUNCTION
1	NC
7	GND
8	OUTPUT
14	VCC

Top view

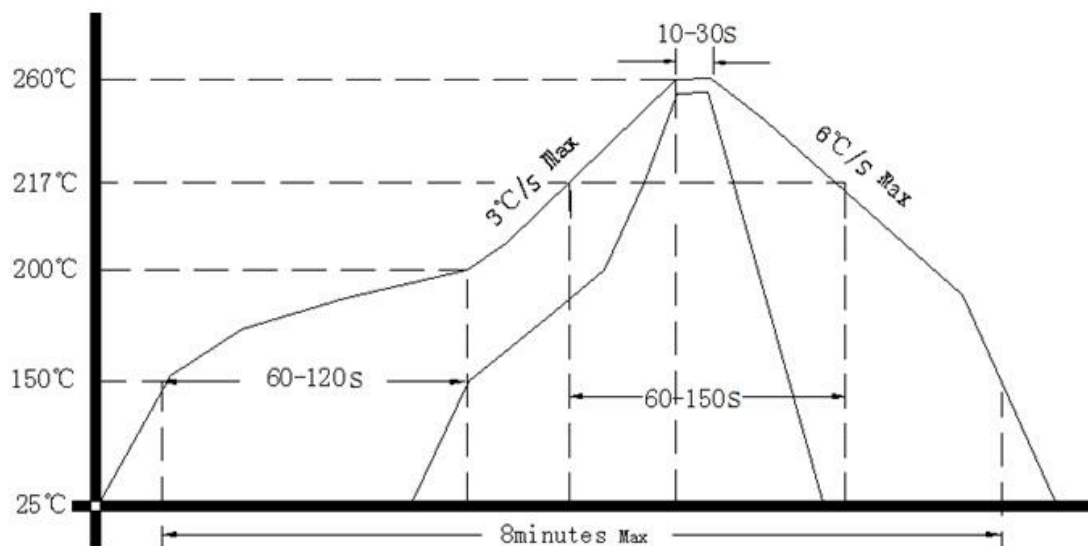


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Reflow soldering curve (RoHS)



ACT part number

ACT will provide a unique part number with full specification based on your requirements, please provide the following details.

ACT series	Frequency (MHz)	Supply voltage (V)	Output type	Frequency stability (ppb)	Operating temperature range (°C)	Frequency tuning	Frequency pulling (ppm)	Central control voltage (Vc)
OX260						Yes No		

Drawing control: (Internal use only)

Issue number: 1

Date : 01/06/2017

Internal reference: D1

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Specifications subject to change without notification