

OX565 Series

OCXO, Sine wave, HCMOS, LVTTTL, 25.4 x 25.4 x 13.0mm



- Startum 2 OCXO
- Excellent frequency vs stability

Output characteristics			
Parameter	Specification		Remarks/Test condition
Frequency range	5.0MHz ~ 100.0MHz		Limited frequencies available: 10MHz, 12.8MHz, 13MHz, 16.384MHz, 19.2MHz, 19.44MHz, 20MHz, 25.6MHz, 26MHz, 30.72MHz, 32.768MHz, 38.88MHz, 40MHz, 50MHz, 100MHz, Contact us for custom frequency requirement
Operating voltages	3.3V, 5.0V, 12.0V		
Output waveform	Sine wave	LVTTTL, 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	±0.2ppb ~ ±3.0ppb		Table 1
Day aging	±0.5ppb		Table 1
Year aging	±50.0ppb		Table 1
Stability vs Voltage	±0.2ppb ~ ±1.0ppb		Table 1
Stability vs Load	±0.2ppb ~ ±1.0ppb		Table 1
Short-term stability	0.01ppb/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	4.0W		
Warm-up time	2.0 min max		
Stable power consumption	2.0W max		
Voltage control characteristics			
Frequency pull in range (min)	±0.3ppm~±0.5ppm, ±0.5ppm~±0.8ppm, ±0.7ppm~±1.0ppm, ±1.0ppm ~ ±1.5ppm		
Central control voltage	1.65V, 2.5V		
Linearity	≤10%		Positive slope
Phase noise (Typical, @ 10.00MHz)			
10Hz	-120dBc/Hz		
100Hz	-140dBc/Hz		
1kHz	-150dBc/Hz		
10kHz	-152dBc/Hz		
100kHz	-155dBc/Hz		
Environmental characteristics			
Operable working temperature	-40°C ~ +85°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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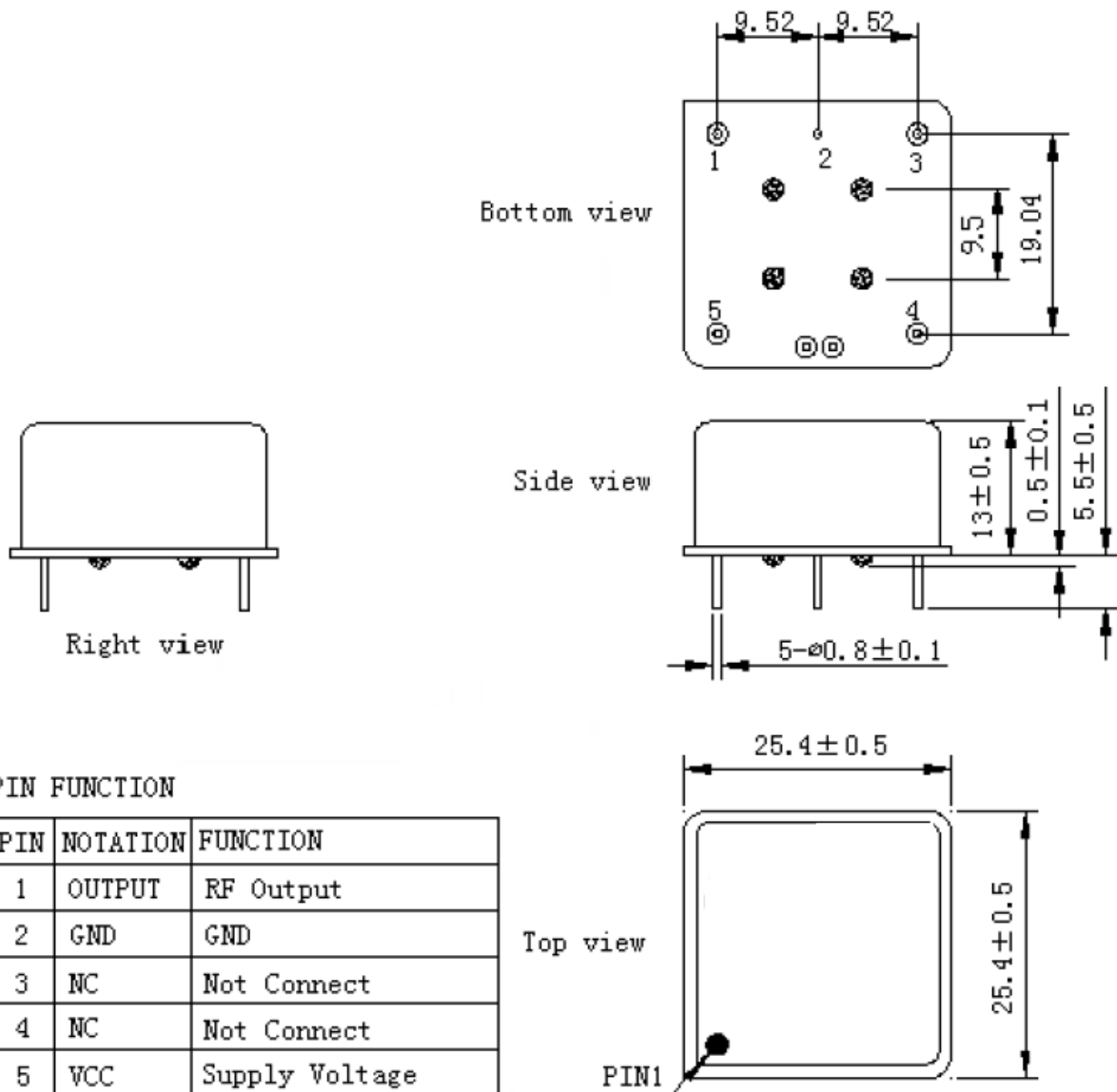
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Table 1: Frequency stability selection (Typical, @ 10.00MHz)

Temperature (°C)	Temperature stability (ppb)	Day-aging (ppb)	Year-aging (ppb)	Stability vs. Voltage (ppb)	Stability vs. Load (ppb)
-20°C ~ +70°C	±0.2	±0.5	±50.0	±0.2	±0.2
-20°C ~ +70°C	±0.5	±0.5	±50.0	±0.5	±0.5
-20°C ~ +70°C	±1.0	±0.5	±50.0	±1.0	±1.0
-20°C ~ +70°C	±3.0	±0.5	±50.0	±1.0	±1.0
-30°C ~ +75°C	±0.2	±0.5	±50.0	±0.2	±0.2
-30°C ~ +75°C	±0.5	±0.5	±50.0	±0.5	±0.5
-30°C ~ +75°C	±1.0	±0.5	±50.0	±1.0	±1.0
-30°C ~ +75°C	±3.0	±0.5	±50.0	±1.0	±1.0
-40°C ~ +85°C	±0.5	±0.5	±50.0	±0.5	±0.5
-40°C ~ +85°C	±1.0	±0.5	±50.0	±1.0	±1.0

Mechanical dimensions and Pin functions

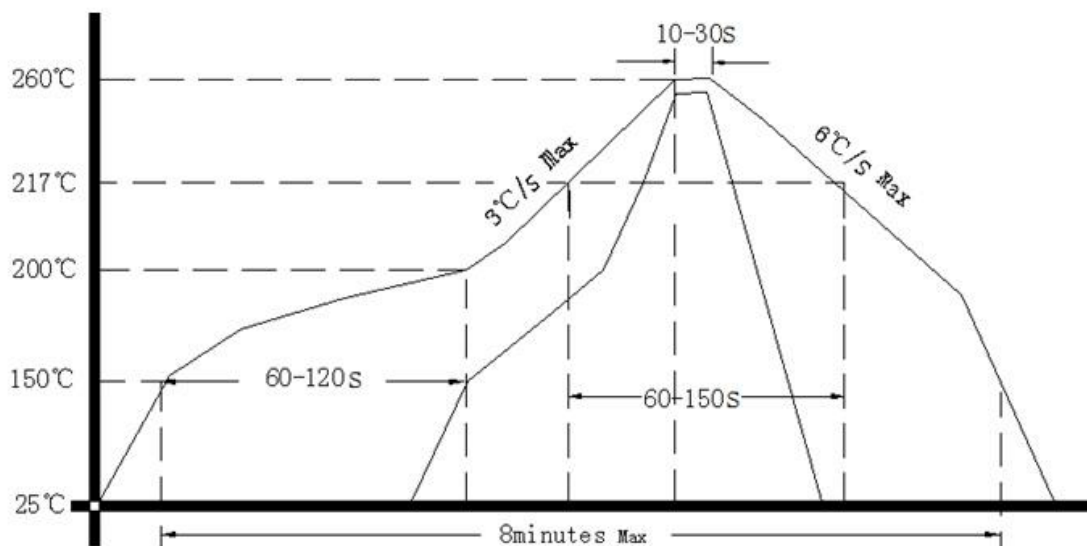


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Reflow soldering curve (RoHS)



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)
OX565						Yes No		

Drawing control: (Internal use only)
 Issue number: 1
 Date : 01/06/2017
 Internal reference: D1

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