

3.3V 5032 SMD Stratum III HCMOS TCXO/VCTCXOMODEL:

FOX321 Series

RoHS Compliant/Pb-Free/REACH Compliant

Rev 11/26/2013

Preliminary Specifications



PART NUMBER SELECTION

Part Number	Model Number	Type	Frequency Stability vs Temp	Operating Temperature (°C)
860-Freq.-xxxx	FOX321	TCXO	±0.1 PPM	-20 ~ +70
860A-Freq.-xxxx	FOX321R	TCXO	±0.28 PPM	-40 ~ +85
860B-Freq.-xxxx	FOX321E	VCTCXO	±0.1 PPM	-20 ~ +70
860C-Freq.-xxxx	FOX321ER	VCTCXO	±0.28 PPM	-40 ~ +85

SPECIFICATIONS

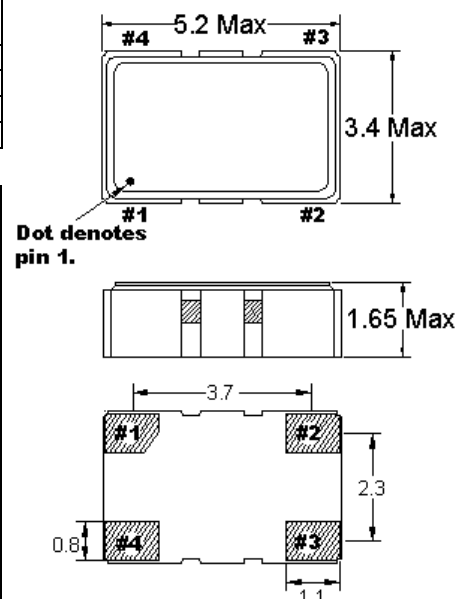
Parameters	Max (unless otherwise noted)
Available Frequencies	10.000MHz 12.800MHz
	19.200MHz 19.440MHz
	20.000MHz 24.576MHz
	25.000MHz 26.000MHz
	30.720MHz 38.880MHz
	40.000MHz
Storage Temperature Range (T _{STG})	-55°C ~ +125°C
Frequency Tolerance @25°C (1 hour after reflow)	±2.0 PPM
Frequency Stability Overall (including 20 years aging) ¹ Vs Supply Voltage Vs Load (±10%)	±4.6 PPM ±0.2 PPM ±0.2 PPM
Supply Voltage (V _{DD})	3.3V±5%
Input Current (I _{DD})	6mA
Rise Time (10% ~ 90% V _{DD}) (T _R)	5nS
Fall Time (90% ~ 10% V _{DD}) (T _F)	5nS
Output Symmetry (50% V _{DD})	45% ~ 55%
Output Voltage (HCMOS) Output Low (V _{OL}) Output High (V _{OH})	10% V _{DD} 90% V _{DD} Min
Output Load	15pF Nom
Startup Time	2mS
Pullability (VCTCXO) (V _c = 1.5±1.0V) ²	±5 PPM Min, +-10 PPM Max
V _c Input Impedance	100kohms Min
Phase Noise @ 100Hz @ 1kHz @ 10kHz	-120dBc Typ -140dBc Typ -148dBc Typ
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

¹ Inclusive of initial frequency tolerance, operating temperature range, 20 years aging, input voltage change, load change, shock, and vibration.

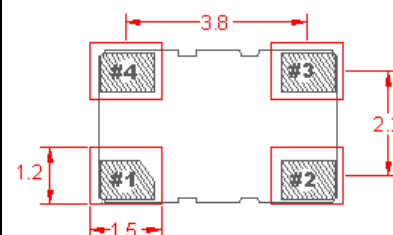
² For proper operation, a control voltage (V_c) must be applied to pin 1 on VCTCXOs.

Note: Dimensional drawing is for reference to critical specifications defined by size measurements.

Certain non-critical visual attributes, such as side castellations, etc. may vary
Specifications subject to change without notice.



Recommended Solder Pad Layout



All dimensions are in millimeters.

Pin Connections

#1 V_c or NC #3 Output
#2 GND #4 V_{DD}