FOX Electronics

3.3V 5032 SMD Stratum III HCMOS TCXO/VCTCXOMODEL:

FOX321 Series RoHS Compliant/Pb-Free/REACH Compliant Rev 11/26/2013

Preliminary Specifications

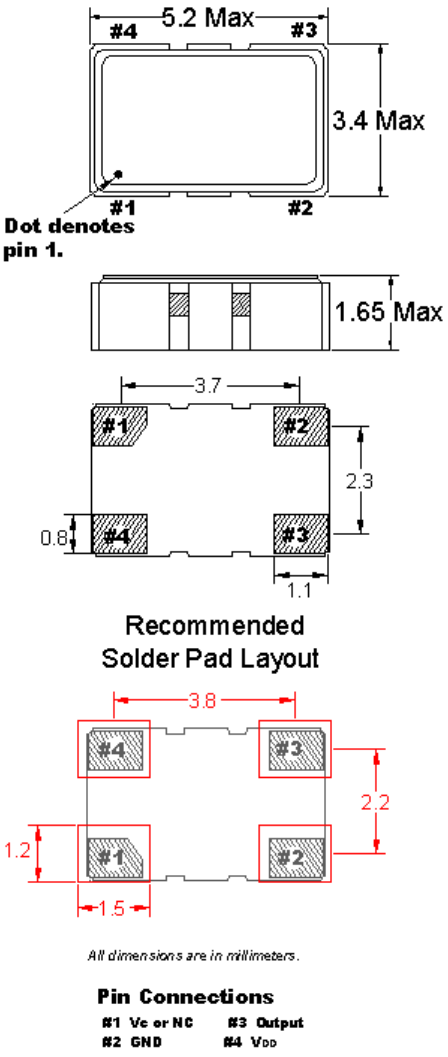
Need a Sample

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) (Vc = 1.5±1.0V)[2]	±5 PPM Min, +-10 PPM Max	
Vc 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 (Vc) 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.

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