

3.3V 5032 SMD Stratum III HCMOS TCXO/VCTCXO



Model: FOX321 Series

RoHS / REACH Compliant / Pb Free

Rev. 5/9/2016

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• PART NUMBER SELECTION

Part Number	Model Number	Frequency Stability (vs Temperature)	Operating Temperature (°C)
860-Frequency-xxxxx	FOX321	±0.1 PPM	-20 ~ +70
860A-Frequency-xxxxx	FOX321R	±0.28 PPM	-40 ~ +85
860B-Frequency-xxxxx	FOX321E	±0.1 PPM	-20 ~ +70
860C-Frequency-xxxxx	FOX321ER	±0.28 PPM	-40 ~ +85

• Available Frequencies

10.000MHz	12.800MHz	19.200MHz
19.440MHz	20.000MHz	24.576MHz
25.000MHz	26.000MHz	30.720MHz
38.880MHz	40.000MHz	

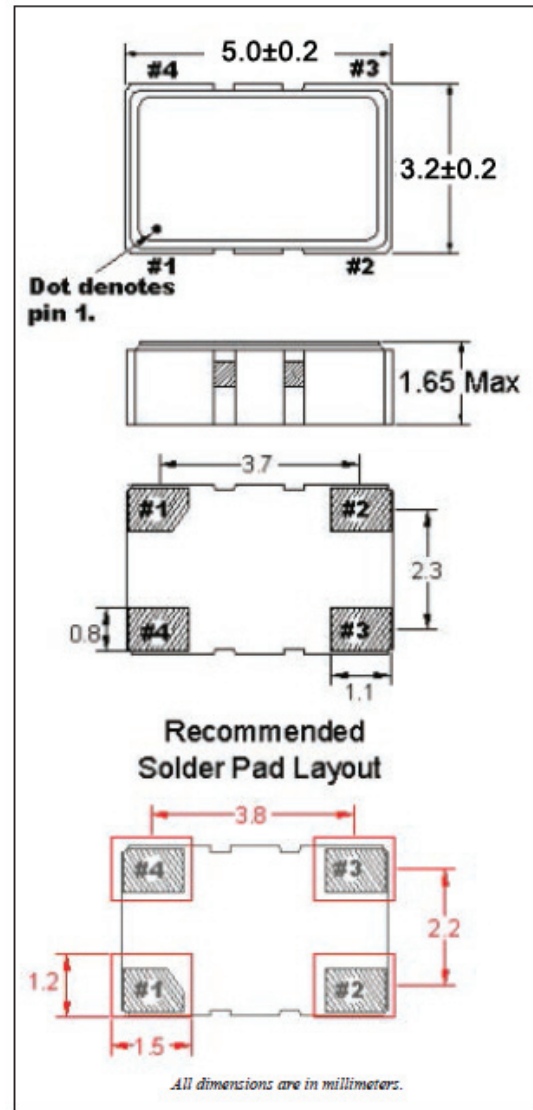
• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Storage Temperature Range	-55°C ~ +125°C
Frequency Tolerance @25°C Overall (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	±5PPM Min
V _c Input Impedance	100kohms Min
Phase Noise (12.8 MHz) @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. The above specifications, having been carefully prepared and checked, is believed to be accurate at the time of publication; however, no responsibility is assumed by Fox Electronics for inaccuracies.

Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary.



Pin Connections

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

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