

# 2.5V ~ 3.3V SMD TCXO/VCTCXO



Model: FOX922 Series

RoHS Compliant / Pb Free

Rev. 1/25/2011

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## FEATURES

- Supply Voltages of 2.5V ~ 3.3V
- 1.0mm Height Max
- Clipped Sine Output

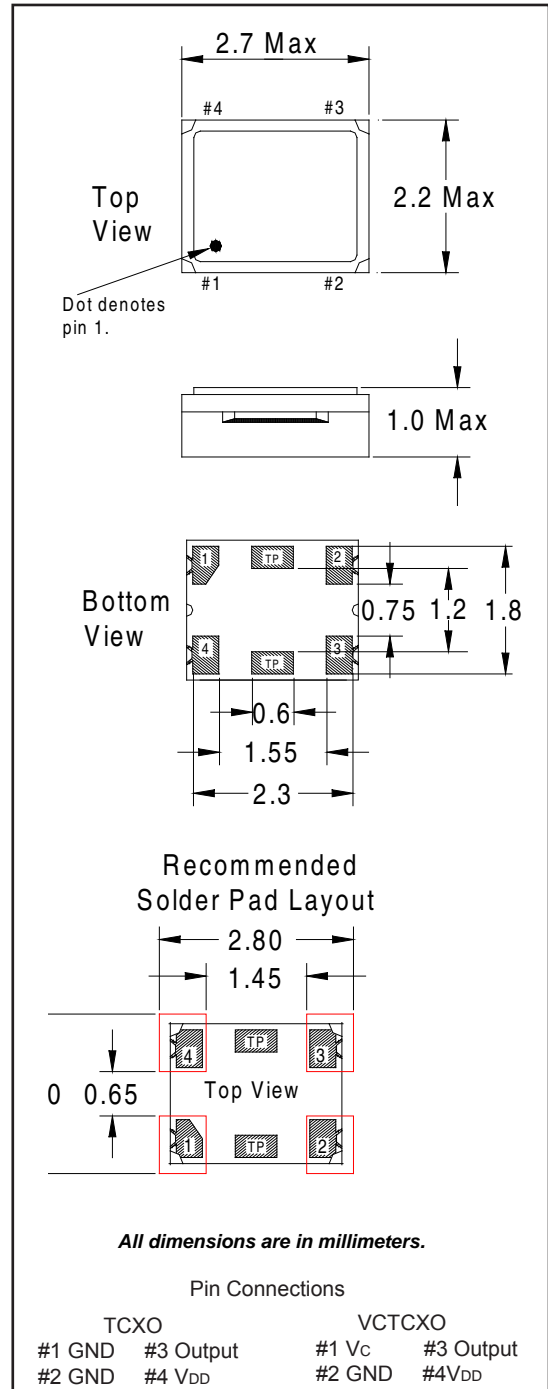
## PART NUMBER SELECTION Learn More - Internet Required

Part Number	Model Number	Supply Voltage(V <sub>DD</sub> )	TCXO/VCTCXO
839C-Frequency-xxxxx	FOX922C	3.3V±5%	TCXO
840C-Frequency-xxxxx	FOX922CE	3.3V±5%	VCTCXO
839B-Frequency-xxxxx	FOX922B	3.0V±5%	TCXO
840B-Frequency-xxxxx	FOX922BE	3.0V±5%	VCTCXO
839D-Frequency-xxxxx	FOX922D	2.8V±5%	TCXO
840D-Frequency-xxxxx	FOX922DE	2.8V±5%	VCTCXO
839F-Frequency-xxxxx	FOX922F	2.7V±5%	TCXO
840F-Frequency-xxxxx	FOX922FE	2.7V±5%	VCTCXO
839G-Frequency-xxxxx	FOX922G	2.5V±5%	TCXO
840G-Frequency-xxxxx	FOX922GE	2.5V±5%	VCTCXO

## ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX(unless otherwise noted)
Frequency Range (Fo)	10.000 ~ 40.000 MHz
Temperature Range	
Operating (T <sub>OPR</sub> )	-30°C ~ +85°C
Storage (T <sub>STG</sub> )	-40°C ~ +85°C
Supply Voltage (V <sub>DD</sub> )	2.5V ~ 3.3V
Input Current (I <sub>DD</sub> )	2.0mA
Initial Frequency Tolerance @ 25°C (after 2 reflows) (VCTCXO: V <sub>C</sub> = 50% V <sub>DD</sub> ) <sup>1</sup>	±2.0PPM
Frequency Stability	
Over Temperature Range	±2.0PPM
Over Supply Voltage Change (V <sub>DD</sub> ±5%)	±0.2PPM
Over Load Change (10KΩ //10pF) ±10%	±0.2PPM
Output Waveform (Clipped Sine)	
Peak-to-Peak Level (V <sub>p-p</sub> )	0.8V Min.
Output Load	(10KΩ //10pF) ±10%
Pullability (VCTCXO) V <sub>C</sub> = 50% V <sub>DD</sub> ±1.0V	±5.0 ~ ±15.0 PPM
Aging per year	±1.0PPM
Phase Noise (16.369 MHz, @ 10kHz offset)	-145 dBc/Hz Typ.
Reflow Soldering Temp	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

<sup>1</sup>For proper operation, a control Voltage (V<sub>c</sub>) must be applied to pin 1 on VCTCXO's.  
\*Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary. All specifications subject to change without notice.



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• TAPE SPECIFICATIONS(millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
FOX922	∅1.5	4.0	4.0	5.5	8.0	1.4	3,000

• REEL SPECIFICATIONS(millimeters)							
MODEL	G	H	I	J	K	L	M
FOX922	2.0	∅13	∅21	∅60	∅180	9.0	2.0

