

# 1.8V~3.3V, Clipped SINE, SMD TCXO/VCTCXO



Model: FOX923 SERIES

RoHS Compliant / Pb Free

Rev. 3/13/2012

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## FEATURES

- Supply Voltages of 1.8V ~ 3.3V
- 1.2 mm Max Height
- Clipped SINE Output
- Tape and Reel (3,000 pcs. STD)

## OPTIONS

- Voltage Control (FOX923E)
- Stabilities to 0.5PPM available (FOX923GP Series)

## • PART NUMBER SELECTION

Part Number	Model Number	Supply Voltage (V <sub>DD</sub> )	TCXO/VCTCXO	Frequency Range (MHz)
673C-Frequency-xxxxx	FOX923C	3.3V ±5%	TCXO	8.000 ~ 40.000
638C-Frequency-xxxxx	FOX923CE	3.3V ±5%	VCTCXO	8.000 ~ 40.000
673-Frequency-xxxxx	FOX923B	3.0V ±5%	TCXO	8.000 ~ 40.000
638-Frequency-xxxxx	FOX923E	3.0V ±5%	VCTCXO	8.000 ~ 40.000
673D-Frequency-xxxxx	FOX923D	2.8V ±5%	TCXO	8.000 ~ 40.000
638D-Frequency-xxxxx	FOX923DE	2.8V ±5%	VCTCXO	8.000 ~ 40.000
673F-Frequency-xxxxx	FOX923F	2.7V ±5%	TCXO	8.000 ~ 40.000
638F-Frequency-xxxxx	FOX923FE	2.7V ±5%	VCTCXO	8.000 ~ 40.000
673G-Frequency-xxxxx	FOX923G	2.5V ±5%	TCXO	8.000 ~ 40.000
638G-Frequency-xxxxx	FOX923GE	2.5V ±5%	VCTCXO	8.000 ~ 40.000
673L-Frequency-xxxxx	FOX923L	1.8V ±5%	TCXO	10.000 ~ 40.000
638L-Frequency-xxxxx	FOX923LE	1.8V ±5%	VCTCXO	10.000 ~ 40.000

## • ELECTRICAL CHARACTERISTICS

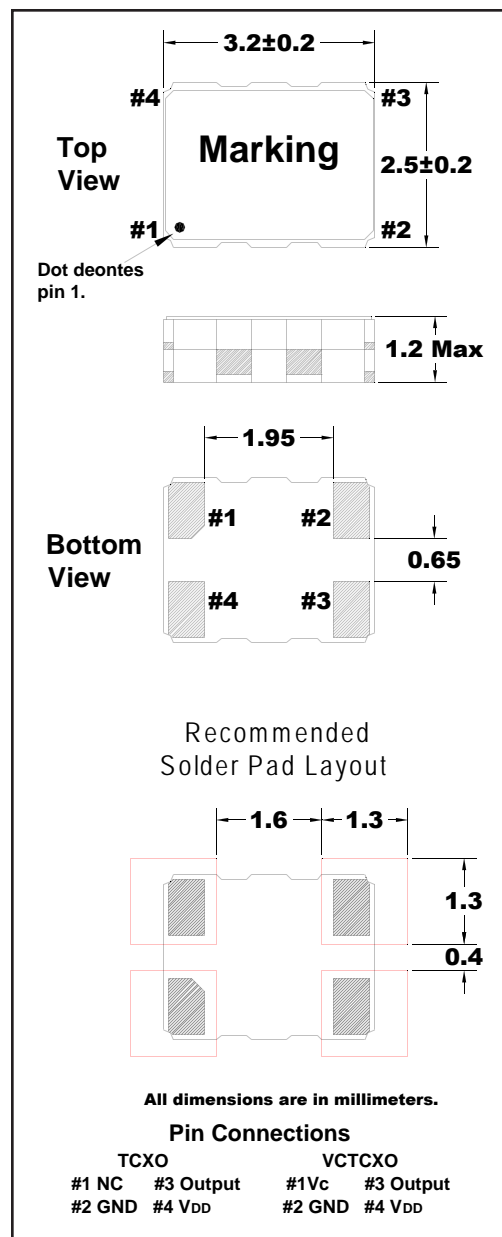
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	8.000 ~ 40.000 MHz
Temperature Range	
Operating (T <sub>OPR</sub> )	-30°C ~ +85°C
Storage (T <sub>STG</sub> )	-40°C ~ +85°C
Supply Voltage (V <sub>DD</sub> )	1.8V ~ 3.3V
Input Current (I <sub>DD</sub> )	2.0mA
Initial Frequency Tolerance @ 25°C (after 2 reflows) <sup>1</sup> (VCTCXO: V <sub>C</sub> = 0.5V <sub>DD</sub> )	±2.0 PPM
Frequency Stability	
Over Temperature Range	±2.5 PPM
Over Supply Voltage Change (V <sub>DD</sub> ± 5%)	±0.3 PPM
Over Load Change (10KΩ//10pF) ±10%	±0.2 PPM
Output Waveform (Clipped Sine)	
Peak-to-Peak Level (V <sub>p-p</sub> )	0.8V
Output Load	10KΩ // 10pF ±10%
Pullability	
V <sub>DD</sub> = 2.5V~3.3V, V <sub>C</sub> = 50% V <sub>DD</sub> ±1.0V	±5 ~ ±15PPM
V <sub>DD</sub> = 1.8V, V <sub>C</sub> = 0.9V ±0.6V	±3 ~ ±5PPM
Aging per year	±1.0PPM
Phase Noise (26.000MHz, @ 10kHz offset)	-145 dBc/Hz Typical
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.

All specifications subject to change without notice.

\*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
FOX923	∅1.5	4.0	4.0	3.5	8.0	1.4	3,000

## • REEL SPECIFICATIONS (millimeters)

MODEL	G	H	I	J	K	L	M
FOX923	2.0	∅13	∅21	∅60	∅180	9.0	1.5

