

# 3.0V Ultra Miniature SMD TCXO/VCTCXO



**Model: FOX914 SERIES**

**RoHS Compliant / Pb Free**

**Rev. 8/8/2013**

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## FEATURES

- 3.0V Operation
- 1.5mm Height Max
- Clipped Sine Output
- Low Cost
- Tape and Reel (2,000 pcs. STD)

## OPTIONS

- Voltage Control (FOX914E)
- Voltages of 2.5V ~ 2.8V ~ 3.3V

• PART NUMBER SELECTION				
Part Number	Model Number	Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz) <sup>1</sup>
490-Frequency-xxxxx	FOX914B	See table	-30 ~ +85	8.000 ~ 40.000
491-Frequency-xxxxx	FOX914E	See table	-30 ~ +85	8.000 ~ 40.000

• ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	8.000 ~ 40.000 MHz <sup>1</sup>
Temperature Range	
Operating (T <sub>OPR</sub> ) <sup>3</sup>	-30°C ~ +85°C
Storage (T <sub>STG</sub> )	-40°C ~ +85°C
Supply Voltage (V <sub>DD</sub> ) <sup>4</sup>	3.0V ± 5%
Input Current (I <sub>DD</sub> )	2.0mA
Initial Frequency Tolerance (@ 25°C ± 2°C) (V <sub>c</sub> = 1.5V <sup>2</sup> )	±1.0PPM
Frequency Stability	
Over Temperature Range <sup>3</sup>	±2.5PPM
Over Supply Voltage Change (3.0V ± 5%)	±0.2PPM
Over Load Change (10kΩ ± 10% // 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%
Aging per year	±1.0PPM
Pullability <sup>2</sup> (V <sub>c</sub> = 1.5 ± 1.0V)	±5.0 ~ ±15.0 PPM

<sup>1</sup> Undeveloped frequencies available on an inquiry basis.

<sup>2</sup> For proper operation, a control voltage (V<sub>c</sub>) must be applied to pin 1 on VCTCXOs.

<sup>3</sup> Other stabilities/temperature ranges available.

<sup>4</sup> Other voltages available.

\*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.

• DEVELOPED FREQUENCIES <sup>1</sup>	
12.600 MHz	19.200 MHz
12.800 MHz	19.440 MHz
13.000 MHz	19.680 MHz
13.824 MHz	19.800 MHz
14.400 MHz	20.000 MHz
14.850 MHz	26.000 MHz
16.800 MHz	

