

3.0V Ultra Miniature SMD TCXO/VCTCXO



Model: FOX914 SERIES

RoHS Compliant / Pb Free

Rev. 3/13/2012

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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) ¹
490-Frequency-xxxxx	FOX914B	See table	-20 ~ +75	8.000 ~ 40.000
491-Frequency-xxxxx	FOX914E	See table	-20 ~ +75	8.000 ~ 40.000

• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	8.000 ~ 40.000 MHz ¹
Temperature Range	
Operating (T _{OPR}) ³	-30°C ~ +85°C
Storage (T _{STG})	-40°C ~ +85°C
Supply Voltage (V _{DD}) ⁴	3.0V ± 5%
Input Current (I _{DD})	2.0mA
Initial Frequency Tolerance (@ 25°C ± 2°C) (V _c = 1.5V ²)	±1.0PPM
Frequency Stability	
Over Temperature Range ³	±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 _{p-p})	0.8V Min
Output Load	10kΩ // 10pF ± 10%
Aging per year	±1.0PPM
Pullability ² (V _c = 1.5 ± 1.0V)	±5.0 ~ ±15.0 PPM

¹ Undeveloped frequencies available on an inquiry basis.

² For proper operation, a control voltage (V_c) must be applied to pin 1 on VCTCXOs.

³ Other stabilities/temperature ranges available.

⁴ 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 FREQUENCIES¹

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	

