

# 3.3V / 5.0V, HCMOS, TCXO



Model: FOX801LF Series

RoHS Compliant

Rev. 9/19/2006

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[http://www.foxonline.com/need\\_a\\_sample.htm](http://www.foxonline.com/need_a_sample.htm)



## FEATURES

- 2.0mm Height Max
- Low Cost
- Clipped Sine Output
- Tape and Reel (2,000 pcs. STD)

## OPTIONS

- 'ALF' Version - 5.0V
- 'BLF' Version - 3.0V
- VCTCXO - AELF/BELF Version
- VCTCXO - AHLF/BHLF Version (trimmerless)

Learn more about:  
[Part Marking Identification](#)  
[Tape and Reel Specification](#)

Internet required

## • PART NUMBER SELECTION [Learn More - Internet Required](#)

Part Number	Model Number	Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz)
250-Frequency-xxxxx	FOX801ALF	see table	-30 ~ +75	10.000 ~ 50.000
251-Frequency-xxxxx	FOX801AELF	see table	-30 ~ +75	10.000 ~ 50.000
252-Frequency-xxxxx	FOX801AHLF	see table	-30 ~ +75	10.000 ~ 50.000
253-Frequency-xxxxx	FOX801BLF	see table	-30 ~ +75	10.000 ~ 50.000
254-Frequency-xxxxx	FOX801BELF	see table	-30 ~ +75	10.000 ~ 50.000
255-Frequency-xxxxx	FOX801BHLF	see table	-30 ~ +75	10.000 ~ 50.000

## • ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	10.000 ~ 50.000 MHz
Temperature Range	
Operating (T <sub>OPR</sub> )	-30°C ~ +75°C
Storage (T <sub>STG</sub> )	-35°C ~ +80°C
Initial Frequency Tolerance (@25°C)	
V <sub>c</sub> = 2.5V (ALF Series) <sup>1</sup> FOX801ALF/BLF/AELF/BELF	±0.5PPM
V <sub>c</sub> = 1.5V (BLF Series) <sup>1</sup> FOX801AHLF/BHLF	±2.0PPM
Supply Voltage (V <sub>DD</sub> )	
ALF Version	5.0V ± 5%
BLF Version	3.0V ± 5%
Input Current (I <sub>DD</sub> )	2.0mA
Frequency Stability	
Over Temperature Range	±2.5PPM
Over Supply Voltage Change (V <sub>DD</sub> ± 5%)	±0.3PPM
Over Load Change (10Ω ± 10% // 10pF ± 10%)	±0.3PPM
Output Waveform (Clipped Sine)	
Peak-to-Peak Level (V <sub>p-p</sub> )	
ALF Version: 10.000 ~ 15.999 MHz	1.0V Min
ALF Version: 16.000 ~ 50.000 MHz	0.8V Min
BLF Version: 10.000 ~ 15.999 MHz	0.8V Min
BLF Version: 16.000 ~ 50.000 MHz	0.7V Min
Output Load	10KΩ // 10pF
Frequency Adjustment (Internal Trimmer)	
FOX801ALF/BLF/AELF/BELF	±3.0PPM
FOX801AHLF/BHLF	Trimmerless
Voltage Control Option (VCTCXO) <sup>1</sup>	
ALF Version (V <sub>c</sub> =2.5±2.0V) FOX801ALF/BLF	None
BLF Version (V <sub>c</sub> =1.5±1.0V) FOX801AELF/BELF	±5.0PPM Min
FOX801AHLF/BHLF	±8.0PPM Min
Aging per year	±0.8PPM

<sup>1</sup> For proper operation, a control voltage (V<sub>c</sub>) must be applied to pin 1 on VCTCXOs.  
 All specifications subject to change without notice.

