

# FOX MODEL: FOX801 SERIES

3.0V/5.0V LOW PROFILE TCXO

## FEATURES

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

## OPTIONS

- 'A' Version - 5.0V
- 'B' Version - 3.0V
- VCTCXO - AE/BE Version
- VCTCXO - AH/BH Version (trimmerless)

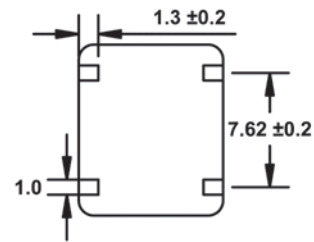
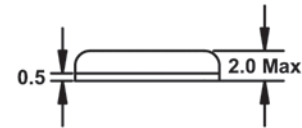
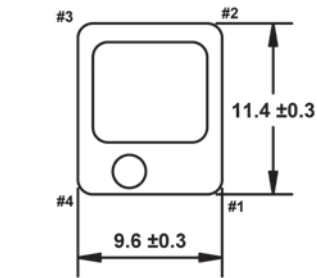


# Discontinued

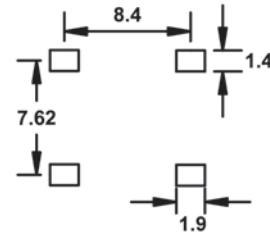
Learn more about:  
[Part Marking Identification](#)  
[Tape and Reel Specification](#)  
 Internet required

PART NUMBER SELECTION <a href="#">Learn More</a> - Internet Required				
Part Number	Model Number	Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz)
250-Frequency-xxxxx	FOX801A	see table	-30 ~ +75	10.000 ~ 50.000
251-Frequency-xxxxx	FOX801AE	see table	-30 ~ +75	10.000 ~ 50.000
252-Frequency-xxxxx	FOX801AH	see table	-30 ~ +75	10.000 ~ 50.000
253-Frequency-xxxxx	FOX801B	see table	-30 ~ +75	10.000 ~ 50.000
254-Frequency-xxxxx	FOX801BE	see table	-30 ~ +75	10.000 ~ 50.000
255-Frequency-xxxxx	FOX801BH	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 (A Series) <sup>1</sup> FOX801A/B/AE/BE	±0.5PPM
V <sub>c</sub> = 1.5V (B Series) <sup>1</sup> FOX801AH/BH	±2.0PPM
Supply Voltage (V <sub>DD</sub> )	
A Version	5.0V ± 5%
B 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> )	
A Version: 10.000 ~ 15.999 MHz	1.0V Min
A Version: 16.000 ~ 50.000 MHz	0.8V Min
B Version: 10.000 ~ 15.999 MHz	0.8V Min
B Version: 16.000 ~ 50.000 MHz	0.7V Min
Output Load	10KΩ // 10pF
Frequency Adjustment (Internal Trimmer)	
FOX801A/B/AE/BE	±3.0PPM
FOX801AH/BH	Trimmerless
Voltage Control Option (VCTCXO) <sup>1</sup>	
A Version (V <sub>c</sub> =2.5±2.0V) FOX801A/B	None
B Version (V <sub>c</sub> =1.5±1.0V) FOX801AE/BE	±5.0PPM Min
FOX801AH/BH	±8.0PPM Min
Aging per year	±0.8PPM



### Recommended Solder Pad Layout



### Pin Connections

- #1 V<sub>c</sub> or N.C.\*
- #2 GND
- #3 Output
- #4 V<sub>DD</sub>

\* A, B is N.C. all other V<sub>c</sub>

All dimensions are in millimeters.

<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. Rev. 6/1/04