

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)

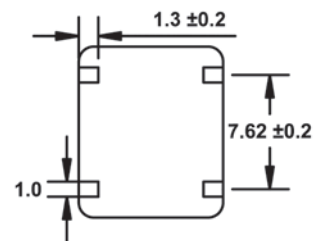
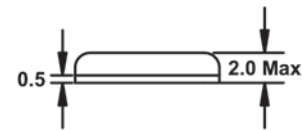
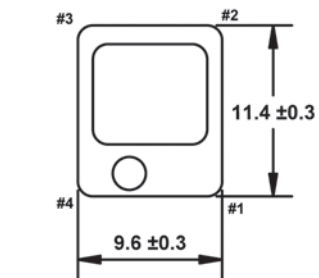


Discontinued

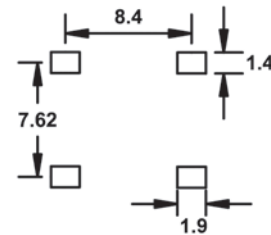
Learn more about:
[Part Marking Identification](#)
[Tape and Reel Specification](#)
 Internet required

PART NUMBER SELECTION <small>Learn More - Internet Required</small>				
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 _{OPR})	-30°C ~ +75°C
Storage (T _{STG})	-35°C ~ +80°C
Initial Frequency Tolerance (@25°C)	
V _c = 2.5V (A Series) ¹ FOX801A/B/AE/BE	±0.5PPM
V _c = 1.5V (B Series) ¹ FOX801AH/BH	±2.0PPM
Supply Voltage (V _{DD})	
A Version	5.0V ± 5%
B Version	3.0V ± 5%
Input Current (I _{DD})	2.0mA
Frequency Stability	
Over Temperature Range	±2.5PPM
Over Supply Voltage Change (V _{DD} ± 5%)	±0.3PPM
Over Load Change (10Ω ± 10% // 10pF ± 10%)	±0.3PPM
Output Waveform (Clipped Sine)	
Peak-to-Peak Level (V _{p-p})	
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) ¹	
A Version (V _c =2.5±2.0V) FOX801A/B	None
B Version (V _c =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_c or N.C.*
- #2 GND
- #3 Output
- #4 V_{DD}

* A, B is N.C. all other V_c

All dimensions are in millimeters.

¹ For proper operation, a control voltage (V_c) must be applied to pin 1 on VCTCXOs.
 All specifications subject to change without notice. Rev. 6/1/04