

# 3.0V/5.0V LOW PROFILE TCXO

## FOX801 SERIES

### FEATURES

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

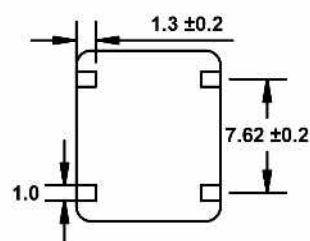
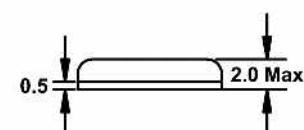
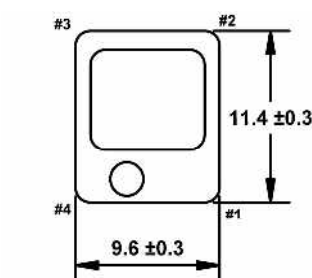
### OPTIONS

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

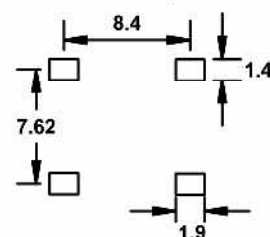


• ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	10.000 ~ 22.000 MHz
Temperature Range	
Operating (TOPR)	-30°C ~ +75°C
Storage (TSTG)	-35°C ~ +80°C
Initial Frequency Tolerance (@25°C)	
Vc = 2.5V (A Series) <sup>1</sup> FOX801A/B/AE/BE	±0.5PPM
Vc = 1.5V (B Series) <sup>1</sup> FOX801AH/BH	±2.0PPM
Supply Voltage (VDD)	
A Version	5.0V ± 5%
B Version	3.0V ± 5%
Input Current (IDD)	2.0mA
Frequency Stability	
Over Temperature Range	±2.5PPM
Over Supply Voltage Change (VDD ± 5%)	±0.3PPM
Over Load Change (10Ω ± 10% // 10pF ± 10%)	±0.3PPM
Output Waveform (Clipped Sine)	
Peak-to-Peak Level (Vp-p)	
A Version: 10.000 ~ 22.000 MHz	1.0V Min
B Version: 10.000 ~ 14.400 MHz	0.8V Min
B Version: 14.400+ ~ 22.000 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 (Vc=2.5±2.0V) FOX801A/B	None
B Version (Vc=1.5±1.0V) FOX801AE/BE	±5.0PPM Min
FOX801AH/BH	±8.0PPM Min
Aging per year	
8.000 ~ 22.000	±0.8PPM

<sup>1</sup> For proper operation, a control voltage (Vc) must be applied to pin 1 on VCTCXOs.  
All specifications subject to change without notice. Rev. 02/10/03



### Recommended Solder Pad Layout



### Pin Connections

#1 Vc or N.C.\* #3 Output  
#2 GND #4 VDD

\* A, B is N.C. all other Vc

All dimensions are in millimeters.

See page 79 for tape and reel specifications.