3.0V / 5.0V, Clipped Sine, TCXO



Model: FOX801LF Series

• Tape and Reel (2,000 pcs. STD)

RoHS Compliant

Rev. 6/10/2009

http://www.foxonline.com/need_a_sample.htm

Need a

Sample

Page 1 of 1

FEATURES

• 2.0mm Height Max

Low Cost

• Clipped Sine Output

OPTIONS

• 'ALF' Version - 5.0V

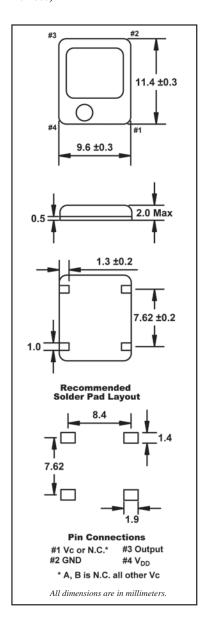
• 'BLF' Version - 3.0V

• VCTCXO - AELF/BELF Version

• VCTCXO - AHLF/BHLF Version (trimmerless)

| PART NUMBER SELECTION Learn More - Internet Required | | | | | |
|--|------------|-----------|------------------|----------------|--|
| Part Number | Model | Frequency | Operating | Frequency | |
| | Number | Stability | Temperature (°C) | Range (MHz) | |
| 250LF-Frequency-xxxxx | FOX801ALF | see table | -30 ~ +75 | 9.600 ~ 50.000 | |
| 251LF-Frequency-xxxxx | FOX801AELF | see table | -30 ~ +75 | 9.600 ~ 50.000 | |
| 252LF-Frequency-xxxxx | FOX801AHLF | see table | -30 ~ +75 | 9.600 ~ 50.000 | |
| 253LF-Frequency-xxxxx | FOX801BLF | see table | -30 ~ +75 | 9.600 ~ 50.000 | |
| 254LF-Frequency-xxxxx | FOX801BELF | see table | -30 ~ +75 | 9.600 ~ 50.000 | |
| 255LF-Frequency-xxxxx | FOX801BHLF | see table | -30 ~ +75 | 9.600 ~ 50.000 | |

| • ELECTRICAL CHARACTERISTICS | | | | |
|---|------------------------------|--|--|--|
| PARAMETERS | MAX (unless otherwise noted) | | | |
| Frequency Range (Fo) | 9.600 ~ 50.000 MHz | | | |
| Temperature Range | | | | |
| Operating (Topr) | -30°C ~ +75°C | | | |
| Storage (Tstg) | -35°C ~ +80°C | | | |
| Initial Frequency Tolerance (@25°C) | | | | |
| $Vc = 2.5V (ALF Series)^1 FOX801ALF/BLF/AELF/BELF$ | ±0.5PPM | | | |
| Vc = 1.5V (BLF Series) ¹ FOX801AHLF/BHLF | ±2.0PPM | | | |
| Supply Voltage (VDD) | | | | |
| ALF Version | $5.0V \pm 5\%$ | | | |
| BLF Version | $3.0V \pm 5\%$ | | | |
| Input Current (IDD) | | | | |
| 9.600 ~ 21.999 MHz | 2.0mA | | | |
| 21.999+ ~ 27.999 MHz | 3.0mA | | | |
| 27.999+ ~ 39.999 MHz | 4.0mA | | | |
| 39.999+ ~ 50.000 MHz | 5.0mA | | | |
| Frequency Stability | | | | |
| Over Temperature Range | ±2.5PPM | | | |
| Over Supply Voltage Change (VDD ± 5%) | | | | |
| 9.600 ~ 21.999 MHz | ±0.3PPM | | | |
| 21.999+ ~ 27.999 MHz | ±0.5PPM | | | |
| 27.999+ ~ 50.000 MHz | ±1.0PPM | | | |
| Over Load Change $(10\Omega \pm 10\% // 10 \text{pF} \pm 10\%)$ | ±0.3PPM | | | |
| Output Waveform (Clipped Sine) | | | | |
| Peak-to-Peak Level (Vp-p) | | | | |
| ALF Version: 9.600 ~ 15.999 MHz | 1.0V Min | | | |
| ALF Version: 16.000 ~ 50.000 MHz | 0.8V Min | | | |
| BLF Version: 9.600 ~ 15.999 MHz | 0.8V Min | | | |
| BLF Version: 16.000 ~ 50.000 MHz | 0.7V Min | | | |
| Output Load | 10KΩ // 10pF ±10% | | | |
| Frequency Adjustment (Internal Trimmer) | | | | |
| FOX801ALF/BLF/AELF/BELF | ±3.0PPM | | | |
| FOX801AHLF/BHLF | Trimmerless | | | |
| Voltage Control Option (VCTCXO) ¹ | | | | |
| ALF Version (Vc=2.5±2.0V) FOX801ALF/BLF | None | | | |
| BLF Version (Vc=1.5±1.0V) FOX801AELF/BELF | ±5.0PPM Min | | | |
| FOX801AHLF/BHLF | ±8.0PPM Min | | | |
| Aging per year | 1.0PPM | | | |
| | | | | |



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