

1.8V~3.3V, Clipped SINE, SMD TCXO/VCTCXO



Model: FOX923 SERIES

RoHS Compliant / Pb Free

Rev. 6/10/2009

Page 1 of 1

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



FEATURES

- Supply Voltages of 1.8V ~ 3.3V
- 1.2 mm Max Height
- Clipped SINE Output

OPTIONS

- Voltage Control (FOX923E)
- Stabilities to 0.5PPM available

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

| Part Number | Model Number | Supply Voltage (V _{DD}) | TCXO/VCTCXO | Frequency Range (MHz) |
|----------------------|--------------|-----------------------------------|-------------|-----------------------|
| 673C-Frequency-xxxxx | FOX923C | 3.3V ±5% | TCXO | 8.000 ~ 52.000 |
| 638C-Frequency-xxxxx | FOX923CE | 3.3V ±5% | VCTCXO | 8.000 ~ 52.000 |
| 673-Frequency-xxxxx | FOX923B | 3.0V ±5% | TCXO | 8.000 ~ 52.000 |
| 638-Frequency-xxxxx | FOX923E | 3.0V ±5% | VCTCXO | 8.000 ~ 52.000 |
| 673D-Frequency-xxxxx | FOX923D | 2.8V ±5% | TCXO | 8.000 ~ 52.000 |
| 638D-Frequency-xxxxx | FOX923DE | 2.8V ±5% | VCTCXO | 8.000 ~ 52.000 |
| 673F-Frequency-xxxxx | FOX923F | 2.7V ±5% | TCXO | 8.000 ~ 52.000 |
| 638F-Frequency-xxxxx | FOX923FE | 2.7V ±5% | VCTCXO | 8.000 ~ 52.000 |
| 673G-Frequency-xxxxx | FOX923G | 2.5V ±5% | TCXO | 8.000 ~ 52.000 |
| 638G-Frequency-xxxxx | FOX923GE | 2.5V ±5% | VCTCXO | 8.000 ~ 52.000 |
| 673L-Frequency-xxxxx | FOX923L | 1.8V ±5% | TCXO | 10.000 ~ 52.000 |
| 638L-Frequency-xxxxx | FOX923LE | 1.8V ±5% | VCTCXO | 10.000 ~ 52.000 |

• ELECTRICAL CHARACTERISTICS

| PARAMETERS | MAX (unless otherwise noted) |
|---|------------------------------|
| Frequency Range (F _o) | 8.000 ~ 52.000 MHz |
| Temperature Range | |
| Operating (T _{OPR}) | -30°C ~ +85°C |
| Storage (T _{STG}) | -40°C ~ +85°C |
| Supply Voltage (V _{DD}) | 1.8V ~ 3.3V |
| Input Current (I _{DD}) | |
| V _{DD} = 2.5V ~ 3.3V, F _o = 8.000 ~ 52.000MHz | 2.0mA |
| V _{DD} = 1.8V, F _o = 10.000 ~ 26.000MHz | 1.5mA |
| V _{DD} = 1.8V, F _o = 26.000+ ~ 52.000MHz | 2.0mA |
| Initial Frequency Tolerance @ 25°C (after 2 reflows) ¹ (VCTCXO: V _C = 0.5V _{DD}) | ±1.5 PPM |
| Frequency Stability | |
| Over Temperature Range | ±2.5 PPM |
| Over Supply Voltage Change (V _{DD} ± 5%) | ±0.3 PPM |
| Over Load Change (10KΩ/10pF) ±10% | ±0.2 PPM |
| Output Waveform (Clipped Sine) | |
| Peak-to-Peak Level (V _{p-p}) | 0.8V |
| Output Load | 10KΩ // 10pF ±10% |
| Pullability | |
| V _{DD} = 2.5V~3.3V, V _C = 50% V _{DD} ±1.0V | ±5 ~ ±15PPM |
| V _{DD} = 1.8V, V _C = 0.9V ±0.6V | ±3 ~ ±5PPM |
| Aging per year | ±1.0PPM |
| Phase Noise (26.000MHz, @ 10kHz offset) | -145 dBc/Hz Typical |
| Reflow Soldering Temp | 260°C / 10 Seconds |
| Moisture Sensitivity Level (MSL) | 1 |
| Termination Finish | Au |

¹For proper operation, a control Voltage (V_c) must be applied to pin 1 on VCTCXO's.
All specifications subject to change without notice.

