

TCXO SMD TEMPERATURE COMPENSATED CRYSTAL OSCILLATORS

FOX759

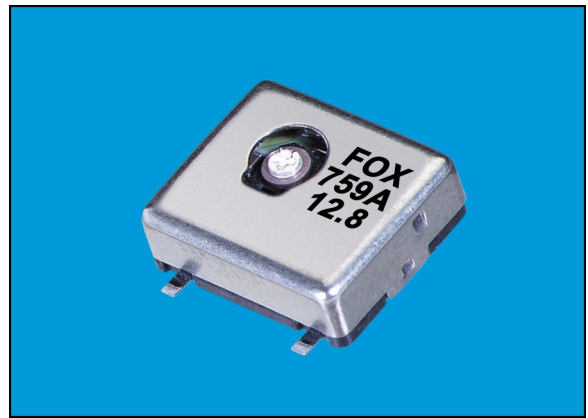
The FOX759 provide a small 0.4 cm³ volume and an extended temperature range. With an optional 3.0V supply voltage, this part is exceptional for portable transmission and communication equipment.

FEATURES

- Miniature Size
- Tight Stability
- Wide Temperature Range
- 3V Supply Voltage - B Version
- VCTCXO - E Version 5V
- VCTCXO - BE Version 3V

APPLICATIONS

- Cellular Phones
- Cordless Phones
- Communications Equipment
- Portable Instrumentation
- Aerospace



• ELECTRICAL CHARACTERISTICS

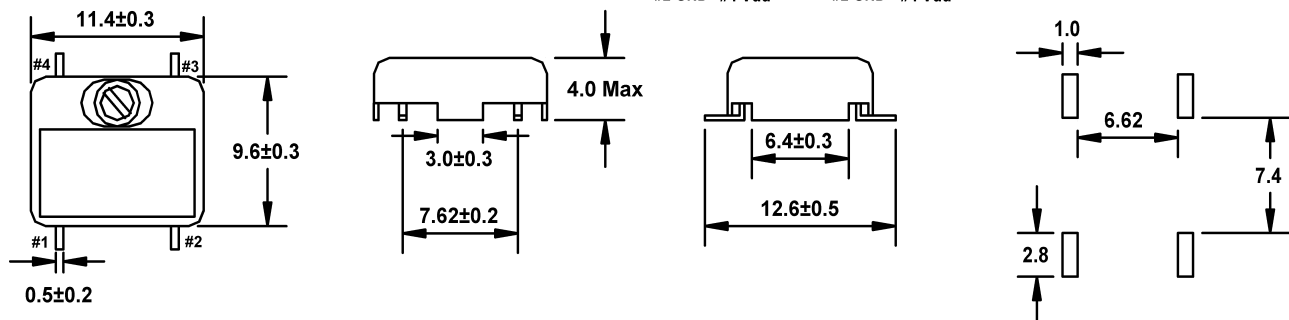
| PARAMETERS | MIN | MAX | UNITS |
|---|----------------------|----------------------|-------|
| Frequency Range (Fo) | 9.600 | 20.000 | MHz |
| Initial Frequency Tolerance at 25°C Vc = 2.5V (E Version)* Vc = 1.5V (BE Version)* | -1.0 | +1.0 | PPM |
| Frequency Stability Over Temperature Range Over Supply Voltage Change (VDD ± 5%) Over Load Change 10kΩ ± 10%, 10pF ± 10% | -2.5 -0.3 -0.3 | +2.5 +0.3 +0.3 | PPM |
| Temperature Range Operating Temperature (TOPR) Storage Temperature (TSTG) | -30 -35 | +75 +80 | °C |
| Supply Voltage (VDD) "A/E" version "B/BE" version | +4.75 +2.85 | +5.25 +3.15 | V |
| Output Waveform (Clipped Sine) Peak-to-Peak Level (Vp-p) | 1.0 | | V |
| Input Current (IDD) | | 2.0 | mA |
| Frequency Adjustment (Internal Trimmer) | ±3.0 | | PPM |
| Pullability VCTCXO* E version (Vc = 2.5V ± 2.0V) BE version (Vc = 1.5V ± 1.0V) | ±5.0 | ±10.0 | PPM |
| Aging (per year at 25°C) | ±1.0 | +1.0 | PPM |

* For proper operation, a control voltage (Vc) must be applied to pin 1 on VCTCXOs.
All specifications subject to change without notice. Rev. 11/09/01

Pin Connections

| | |
|-------------------|-----------------|
| TCXO | VCTCXO |
| #1 N.C. #3 Output | #1 Vc #3 Output |
| #2 GND #4 Vdd | #2 GND #4 Vdd |

Recommended Solder Pad Layout



See page 74 for tape and reel specifications.

All dimensions are in millimeters.