

5.0V/3.0V Plastic HCMOS/TTL Oscillator



Model: FSOLF Series

RoHS Compliant / Pb Free

Rev. 9/18/2006

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

Discontinued



FEATURES

- 5.0V / 3.3V Operation
- HCMOS/TTL Output
- Tri-State Enable/Disable
- Extended Temperature Range
- Tape and Reel (1,000 pcs. STD)

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

Internet required

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

| Part Number | Model Number | V _{DD} (V) | Frequency Stability ¹ | Operating Temperature (°C) | Frequency Range (MHz) |
|------------------|----------------------|---------------------|----------------------------------|----------------------------|-----------------------|
| 259LF-Freq-xxxxx | FSO-2LF ³ | 5.0 ± 0.5 | ±100PPM | -20 ~ +70 | 1.000 ~ 66.6667 |
| 547LF-Freq-xxxxx | FSO-2RLF | | +100PPM | -40 ~ +85 | 1.000 ~ 66.6667 |
| 432LF-Freq-xxxxx | FSO-25LF | | ±50PPM | -20 ~ +70 | 1.000 ~ 66.6667 |
| 433LF-Freq-xxxxx | FSO-3LF ³ | 3.3 ± 0.3 | ±100PPM | -20 ~ +70 | 1.000 ~ 66.6667 |
| 543LF-Freq-xxxxx | FSO-3RLF | | ±100PPM | -40 ~ +85 | 1.000 ~ 66.6667 |
| 434LF-Freq-xxxxx | FSO-35LF | | ±50PPM | -20 ~ +70 | 1.000 ~ 66.6667 |

• ELECTRICAL CHARACTERISTICS

| PARAMETERS | FSO-2LF Series | FSO-3LF Series |
|--|------------------------------|----------------|
| | MAX (unless otherwise noted) | |
| Frequency Range (F _o) | 1.000 ~ 66.6667 MHz | |
| Input Current (I _{DD}) | | |
| 1.000 ~ 30.000 MHz | 23mA | 9mA |
| 30.000+ ~ 66.6667 MHz | 35mA | 20mA |
| Output Symmetry (50% V _{DD}) | 40% ~ 60% | |
| Rise Time (20% ~ 80% V _{DD}) (T _R) | | |
| 1.000 ~ 30.000 MHz | 8nS | 6nS |
| 30.000+ ~ 66.6667 MHz | 7nS | 6nS |
| Fall Time (80% ~ 20% V _{DD}) (T _F) | | |
| 1.000 ~ 30.000 MHz | 8nS | 6nS |
| 30.000+ ~ 66.6667 MHz | 7nS | 6nS |
| Output Voltage (V _{OL}) | 0.4V | |
| (V _{OH}) | 4.6V Min | 2.9V Min |
| Output Current (I _{OL}) | 16mA Min | |
| (I _{OH}) | -16mA Min | |
| Output Load (TTL) | 10TTL | |
| (HCMOS) | 50pF | |
| Start-up Time (T _S) | | |
| 1.000 ~ 30.000 MHz | 4mS | |
| 30.000+ ~ 66.6667 MHz | 10mS | |
| Enable/Disable Time ² | 100nS | |

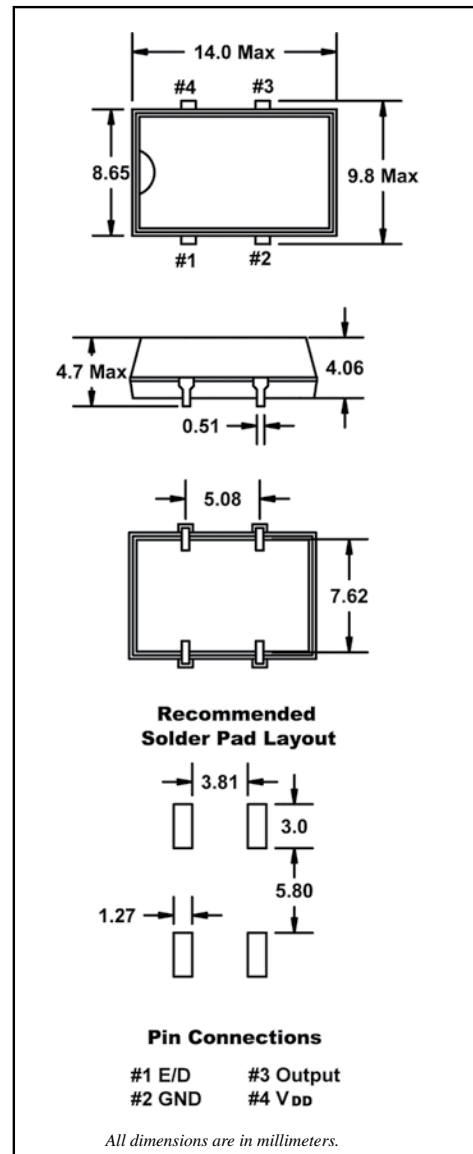
¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, aging, and load change.

² An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

³ The FSO-2LF and FSO-3LF models will also operate over -40°C ~ +85°C, but with a stability of ±200 PPM.

Note: A 0.01µF bypass capacitor should be placed between V_{DD} (Pin 4) and GND (Pin 2) to minimize power supply line noise.

All specifications subject to change without notice.



• ENABLE / DISABLE FUNCTION

| | |
|-----------------------------------|----------------|
| INH (Pin 1) | OUTPUT (Pin 3) |
| OPEN ² | ACTIVE |
| '1' Level V _{IH} ≥ 2.4 V | ACTIVE |
| '0' Level V _{IL} ≤ 0.6 V | High Z |