

# TTL 5.0V Oscillator



Model: F1100ELF

RoHS Compliant / Pb Free

Rev. 10/24/2011

[http://www.foxonline.com/need\\_a\\_sample.htm](http://www.foxonline.com/need_a_sample.htm)

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

| Part Number      | Model Number | Frequency Stability <sup>1</sup> | Operating Temperature (°C) | Frequency Range (MHz) |
|------------------|--------------|----------------------------------|----------------------------|-----------------------|
| 049LF-Freq-xxxxx | F1100ELF     | ±100PPM(STD)                     | 0 ~ +70                    | 1.500 ~ 59.000        |
| 343LF-Freq-xxxxx | F1100ERLF    | ±100PPM                          | -40 ~ +85                  | 1.500 ~ 59.000        |
| 060LF-Freq-xxxxx | F1145ELF     | ±50PPM                           | 0 ~ +70                    | 1.500 ~ 59.000        |

## • ELECTRICAL CHARACTERISTICS

| PARAMETERS                                    | MAX (unless otherwise noted) |
|-----------------------------------------------|------------------------------|
| Frequency Range (Fo)                          | 1.500 ~ 59.000 MHz           |
| Storage Temperature Range (T <sub>STG</sub> ) | -55°C ~ +125°C               |
| Supply Voltage (V <sub>DD</sub> )             | 5.0V ± 10%                   |
| Input Current (I <sub>DD</sub> )              |                              |
| 1.500 ~ 8.000 MHz                             | 15mA                         |
| 8.000+ ~ 24.000 MHz                           | 30mA                         |
| 24.000+ ~ 59.000 MHz                          | 70mA                         |
| Output Symmetry (1.4V Level)                  |                              |
| 1.500 ~ 8.000 MHz                             | 45% ~ 55%                    |
| 8.000+ ~ 59.000 MHz                           | 40% ~ 60%                    |
| Rise Time (0.5V ~ 2.4V) (T <sub>R</sub> )     |                              |
| 1.500 ~ 25.000 MHz                            | 10 nS                        |
| 25.000+ ~ 59.000 MHz                          | 5 nS                         |
| Fall Time (2.4V ~ 0.5V) (T <sub>F</sub> )     |                              |
| 1.500 ~ 25.000 MHz                            | 10 nS                        |
| 25.000+ ~ 59.000 MHz                          | 5 nS                         |
| Output Voltage                                |                              |
| 1.500 ~ 25.000 MHz (V <sub>OL</sub> )         | 0.4V                         |
| 25.000+ ~ 59.000 MHz                          | 0.5V                         |
| Output Current (I <sub>OL</sub> )             | 20mA Min                     |
| (I <sub>OH</sub> )                            | -1.0mA Min                   |
| Output Load                                   | 10TTL                        |
| Start-up Time (T <sub>s</sub> )               |                              |
| 1.500 ~ 3.500 MHz                             | 20mS                         |
| 3.500+ ~ 4.000 MHz                            | 35mS                         |
| 4.000+ ~ 6.000 MHz                            | 30mS                         |
| 6.000+ ~ 20.000 MHz                           | 20mS                         |
| 20.000+ ~ 59.000 MHz                          | 15mS                         |

<sup>1</sup> Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

All specifications subject to change without notice.

