

# TTL 5.0V Oscillator



Model: F1100ELF

RoHS Compliant / Pb Free

Rev. 9/18/2006

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



## • 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	1.000 ~ 100.000
343LF-Freq-xxxxx	F1100ERLF	±100PPM	-40 ~ +85	1.000 ~ 100.000
060LF-Freq-xxxxx	F1145ELF	±50PPM	0 ~ +70	1.000 ~ 100.000
061LF-Freq-xxxxx	F1145ERLF	±50PPM	-40 ~ +85	1.000 ~ 70.000
055LF-Freq-xxxxx	F1144ELF	±25PPM	0 ~ +70	1.000 ~ 100.000
465LF-Freq-xxxxx	F1144ERLF	±25PPM	-40 ~ +85	1.000 ~ 70.000

## • ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	1.000 ~ 100.000 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> )	
1.000 ~ 8.000 MHz	15mA
8.000+ ~ 24.000 MHz	30mA
24.000+ ~ 70.000 MHz	70mA
70.000+ ~ 100.000 MHz	80mA
Output Symmetry (1.4V Level)	
1.000 ~ 8.000 MHz	45% ~ 55%
8.000+ ~ 100.000 MHz	40% ~ 60%
Rise Time (0.5V ~ 2.4V) (T <sub>R</sub> )	
1.000 ~ 25.000 MHz	10 nS
25.000+ ~ 70.000 MHz	5 nS
70.000+ ~ 100.000 MHz	4 nS
Fall Time (2.4V ~ 0.5V) (T <sub>F</sub> )	
1.000 ~ 25.000 MHz	10 nS
25.000+ ~ 70.000 MHz	5 nS
70.000+ ~ 100.000 MHz	4 nS
Output Voltage	
1.000 ~ 25.000 MHz (V <sub>OL</sub> )	0.4V
25.000+ ~ 100.000 MHz	0.5V
1.000 ~ 100.000 MHz (V <sub>OH</sub> )	2.4V Min
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> )	
1.000 ~ 3.500 MHz	20mS
3.500+ ~ 4.000 MHz	35mS
4.000+ ~ 6.000 MHz	30mS
6.000+ ~ 20.000 MHz	20mS
20.000+ ~ 100.000 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.

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

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