

5.0V TTL CLOCK OSCILLATOR

F1100E

FEATURES

- 5.0V Operation
- TTL Output
- 14-Pin DIP



• MODEL NUMBER SELECTION

Model Number	Frequency Stability ¹	Operating Temperature (°C)	Frequency Range (MHz)
F1100E	±100PPM (STD)	0 ~ +70	1.000 ~ 100.000
F1100ER	±100PPM	-40 ~ +85	1.000 ~ 100.000
F1145E	±50PPM	0 ~ +70	1.000 ~ 100.000
F1145ER	±50PPM	-40 ~ +85	1.000 ~ 70.000
F1144E	±25PPM	0 ~ +70	1.000 ~ 100.000
F1144ER	±25PPM	-40 ~ +85	1.000 ~ 70.000

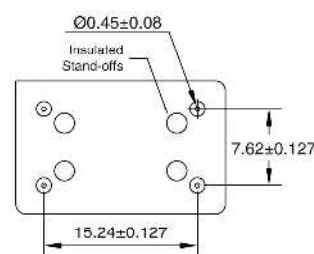
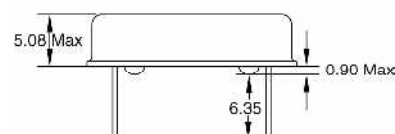
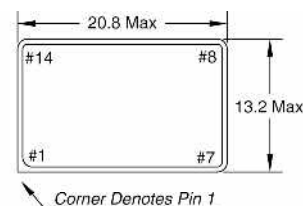
• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (F ₀)	1.000 ~ 100.000 MHz
Storage Temperature Range (T _{STG})	-55°C ~ +125°C
Supply Voltage (V _{DD})	5.0V ± 10%
Input Current (I _{DD})	
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 _R)	
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 _F)	
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 _{OL})	0.4V
25.000+ ~ 100.000 MHz	0.5V
1.000 ~ 100.000 MHz (V _{OH})	2.4V Min
Output Current (I _{OL})	20mA Min
(I _{OH})	-1.0mA Min
Output Load	10TTL
Start-up Time (T _S)	
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

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

See page 30 for mechanical specifications, test circuits, and output waveform.

All specifications subject to change without notice. Rev. 02/10/03



Pin Connections

#1 N.C. #8 Output
#7 GND (Case) #14 +5Vdc

All dimensions are in millimeters.