

# **5.0V TTL CLOCK OSCILLATOR** **MODEL: F1100E**

## FEATURES

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



# DISCONTINUED



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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) |
|---------------------|--------------|----------------------------------|----------------------------|-----------------------|
| 049-Frequency-xxxxx | F1100E       | ±100PPM(STD)                     | 0 ~ +70                    | 1.000 ~ 100.000       |
| 343-Frequency-xxxxx | F1100ER      | ±100PPM                          | -40 ~ +85                  | 1.000 ~ 100.000       |
| 060-Frequency-xxxxx | F1145E       | ±50PPM                           | 0 ~ +70                    | 1.000 ~ 100.000       |
| 061-Frequency-xxxxx | F1145ER      | ±50PPM                           | -40 ~ +85                  | 1.000 ~ 70.000        |
| 055-Frequency-xxxxx | F1144E       | ±25PPM                           | 0 ~ +70                    | 1.000 ~ 100.000       |
| 465-Frequency-xxxxx | F1144ER      | ±25PPM                           | -40 ~ +85                  | 1.000 ~ 70.000        |

## • ELECTRICAL CHARACTERISTICS

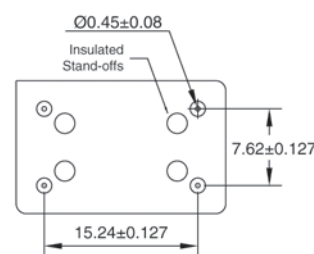
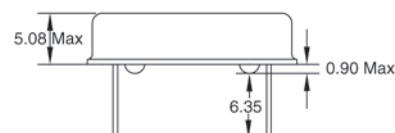
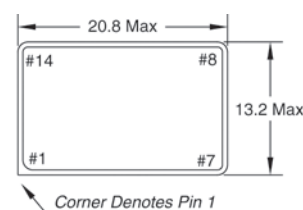
| PARAMETERS                                    | MAX (unless otherwise noted) |
|-----------------------------------------------|------------------------------|
| Frequency Range(F <sub>o</sub> )              | 1.000 ~ 100.000 MHz          |
| Storage Temperature Range (T <sub>STG</sub> ) | -55°C ~ +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. Rev. 6/1/04

## Learn more about: Part Marking Identification Mechanical Specification

Internet required



### Pin Connections

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

All dimensions are in millimeters.

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