

TTL CLOCK OSCILLATOR F1100E

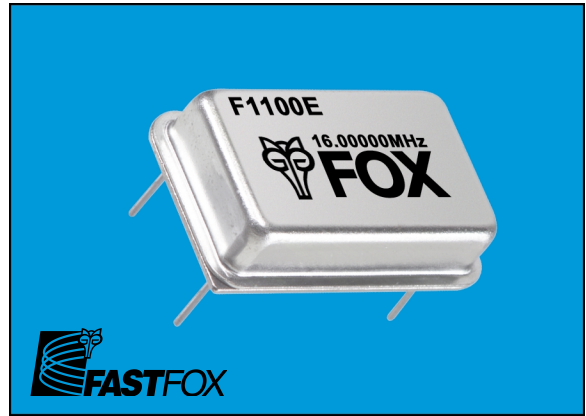
The F1100E Clock Oscillator is TTL compatible and features fast rise/fall times with high reliability at low cost. The package is all metal with pin 7 as case ground which provides shielding to help minimize EMI radiation.

FEATURES

- Industry Standard
- Low Cost
- Drives Full 10 TTL Load
- Wide Frequency Range
- Rugged Resistance Weld

• MODEL NUMBER SELECTION	
Frequency Stability	Model Number
±100PPM (STD)	F1100E
±50PPM	F1145E
±25PPM	F1144E

Note: -40°C ~ +85°C "R" version available
(ex: F1100ER) to 70 MHz



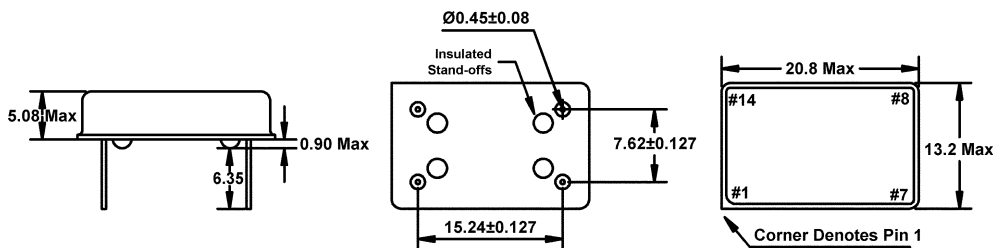
• ELECTRICAL CHARACTERISTICS (VDD = 5.0V, RL = 400Ω, CL = 15pF)

PARAMETERS	FREQUENCY RANGE	CONDITIONS	MIN	MAX	UNITS
Frequency Range (Fo)			1.000	100.000	MHz
Frequency Stability	1.000 ~ 100.000	All Conditions*	-100	+100	PPM
Temperature Range	1.000 ~ 100.000				
Operating (TOPR)			0	+70	°C
Storage (TSTG)			-55	+125	
Supply Voltage (VDD)	1.000 ~ 100.000		+4.5	+5.5	V
Input Current (IDD)	1.000 ~ 8.000			15	mA
	8.000+ ~ 24.000			30	
	24.000+ ~ 70.000			70	
	70.000+ ~ 100.000			80	
Output Symmetry	1.000 ~ 8.000	1.4V Level	45	55	%
	8.000+ ~ 100.000		40	60	
Rise Time (TR)	1.000 ~ 25.000	0.4V to 2.4V		10	nS
	25.000+ ~ 70.000	0.5V to 2.4V		5	
	70.000+ ~ 100.000	0.5V to 2.4V		4	
Fall Time (TF)	1.000 ~ 25.000	2.4V to 0.4V		10	
	25.000+ ~ 70.000	2.4V to 0.5V		5	
	70.000+ ~ 100.000	2.4V to 0.5V		4	
Output Voltage (VOL)	1.000 ~ 25.000	IOL = 20 mA		0.4	V
	25.000+ ~ 100.000			0.5	
Output Voltage (VOH)	1.000 ~ 100.000	IOH = -1 mA	2.4		
Output Current (IOL)	1.000 ~ 100.000	VOL = 0.5 V		20	mA
Output Current (IOH)		VOH = 2.4 V		-1.0	
Output Load	1.000 ~ 100.000			10	TTL
Start-up Time (TS)	1.000 ~ 3.500			20	mS
	3.500+ ~ 4.000			35	
	4.000+ ~ 6.000			30	
	6.000+ ~ 20.000			20	
	20.000+ ~ 100.000			15	

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

See page 44 for mechanical specifications, test circuits, and output waveform.

All specifications subject to change without notice. Rev. 03/02/00



All dimensions are in millimeters.