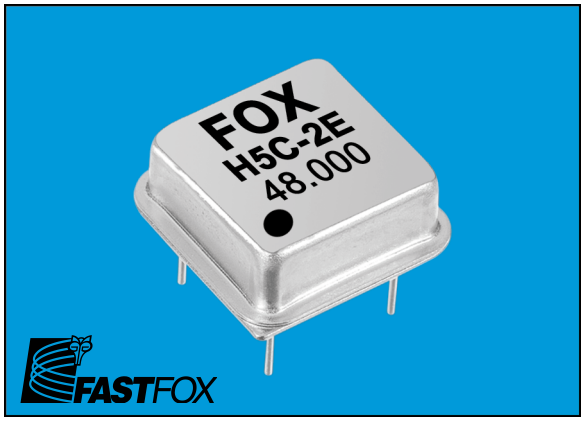
HALF SIZE HCMOS TRI-STATE ENABLE/DISABLE OSCILLATOR

H5C-2E



The H5C-2E Clock Oscillator employs a tri-state function for control of the output. Applying a logic '1' to pin 1 enables the oscillator output and a logic '0' to pin 1 disables the output to a high impedance state called High Z state. This allows for testing by automated test equipment by having the part appear as removed from the circuit. The package is all metal with pin 4 as case ground which provides shielding to help minimize EMI radiation.

FEATURES

- 8 Pin Dip
- 50pF HCMOS Load
- 10TTL Loads
- Low Cost
- Tri-state Enable/Disable

• MODEL NUMBER SELECTION

Frequency Stability	Model Number
±100PPM	**H5C-2E**
±50PPM	**H6C-2E**
±25PPM	**H7C-2E**

Note: -40ºC ~ 85ºC "R" version available (ex: H5C-2ER)

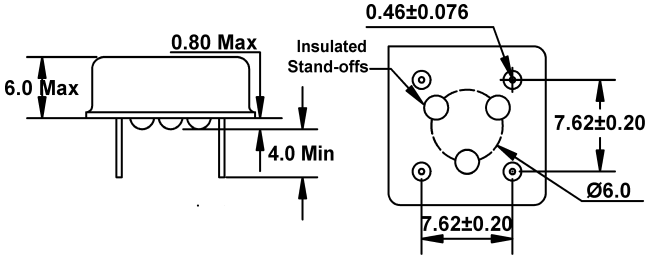
• ELECTRICAL CHARACTERISTICS (V_{DD} = 5.0V, C_L = 50pF)

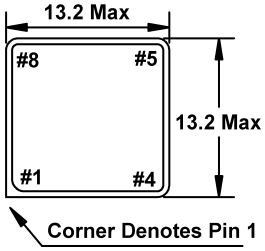
PARAMETERS	FREQUENCY RANGE	CONDITIONS	MIN	MAX	UNITS
Frequency Range (Fo)			1.000	70.000	MHz
Frequency Stability	1.000 ~ 70.000	All Conditions *	-100	+100	PPM
Temperature Range	1.000 ~ 70.000				
Operating (TOPR)			0	+70	ºC
Storage (TSTG)			-55	+125	
Supply Voltage (VDD)	1.000 ~ 70.000		+4.5	+5.5	V
Input Current (IDD)	1.000 ~ 40.000			40	mA
	40.000+ ~ 70.000			60	
Output Symmetry	1.000 ~ 50.000	2.5V	45	55	%
	50.000+ ~ 70.000		40	60	
Rise Time (TR)	1.000 ~ 70.000	0.5V ~ 4.5V		10	nS
Fall Time (TF)	1.000 ~ 70.000	4.5V ~ 0.5V		10	
Output Voltage (VOL)	1.000 ~ 70.000	IOL = 16 mA		0.5	V
(VOH)		IOH = -16 mA	4.5		
Output Current (IOL)	1.000 ~ 70.000	VOL = 0.5 V		16	mA
(IOH)		VOH = 4.5 V		-16	
Output Load	1.000 ~ 70.000	TTL		10	TTL
		HCMOS		50	pF
Start-up Time (TS)	1.000 ~ 70.000			10	mS
Output Enable/Disable Time	1.000 ~ 70.000			100	nS

* Inclusive of 25ºC tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.
*** An internal pullup resistor from pin 1 to pin 8 allows active output if pin 1 is left open.
See page 44 for mechanical specifications, test circuits, and output waveform.
All specifications subject to change without notice. Rev. 03/02/00

• ENABLE / DISABLE FUNCTION**

$\overline{INH}$ (Pin 1)	OUTPUT (Pin 5)
OPEN ***	ACTIVE
'1' Level VIH ≥ 2.2 V	ACTIVE
'0' Level VIL ≤ 0.8 V	High Z





Pin Connections

#1 E/D**
#4 GND (Case)
#5 Output
#8 +5Vdc

All dimensions are in millimeters.