

H5C / HALF SIZE HCMOS OSCILLATOR

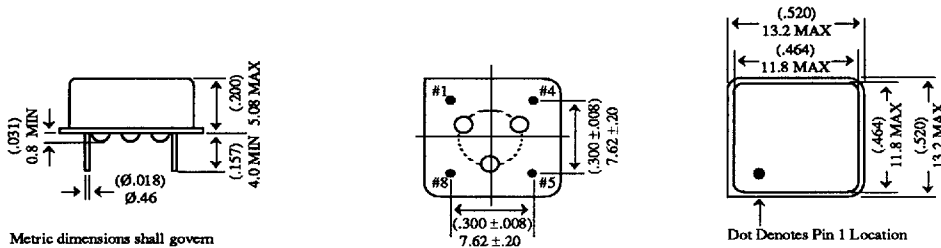


The FOX H5C is a Hybrid Clock Oscillator capable of driving HCMOS circuitry and up to 10 TTL loads. The H5C features low current drain and a smaller footprint than the full size F5C.

The case-ground metal package minimizes EMI radiation and provides durability with its resistance-weld seal.

FEATURES

- Hermetically Sealed Can
- Small Footprint
- Drives 10-TTL Gates



Metric dimensions shall govern
All dimensions are in millimeters & parenthetically in inches

Pin Connections

- #1 N.C.
- #5 Output
- #4 GND (Case)
- #8 +5 Vdc

Dot Denotes Pin 1 Location

• H5C SPECIFICATIONS

Frequency Range	(Fo)	0.500 ~ 90.000	MHz
Temperature Range -	Operating (TA)	0 ~ +70	°C
	Storage (TSTG)	-55 ~ +125	°C
Supply Voltage	(VDD)	5.0 ± 0.5	V

• PART NUMBER SELECTION

FREQUENCY STABILITY	PART NUMBER
±100PPM	H5C
±50PPM	H6C
±25PPM (at selected frequencies)	H7C

• ELECTRICAL CHARACTERISTICS (TA = 25°C, VDD = 5.0V, CL = 15pF)

PARAMETERS	CONDITION	MIN	TYP	MAX	UNITS
Frequency Stability	All conditions *	-100		+100	PPM
Input Current	0.500 ~ 30.000 MHz			30	mA
	30.000+ ~ 70.000 MHz			40	
	70.000+ ~ 90.000MHz			50	
Output Symmetry	50% VDD Level	40		60	%
Rise Time (TR)	10% ~ 90% VDD Level			10	ns
Fall Time (TF)	90% ~ 10% VDD Level			10	
Output Voltage (VOL)	'0' Logic Level			0.5	V
	(VOH)	'1' Logic Level	4.5		
Output Current (IOL)	'0' Logic Level	16.0			mA
	(IOH)	'1' Logic Level		-0.4	
Output Load	TTL			10	TTL
	HCMOS			50	pF
Start-up Time (TS)	0.0V ~ 5.0V		0.2 ~ 2.5	10	ms

* Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.
See page 53 for environmental/mechanical specifications, test circuits, and output waveforms.
All specifications subject to change without notice. Rev. 2/18/94