

# HCMOS 32.768kHz SMD Crystal Oscillator **FOX**

Model: FOX465

RoHS Compliant / Pb Free

Rev. 3/7/2005 Preliminary

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## FEATURES

- Tight Stability
- HCMOS Output
- Operable 1.5V ~ 6.0V

# Discontinued

## • PART NUMBER SELECTION [Learn More](#) - Internet Required

Part Number	Model Number	Frequency Stability	Operating Temperature (°C)	Frequency (kHz)
755-Frequency-xxxxx	FOX465	See below	-40 ~ +85	32.768

## • ELECTRICAL CHARACTERISTICS

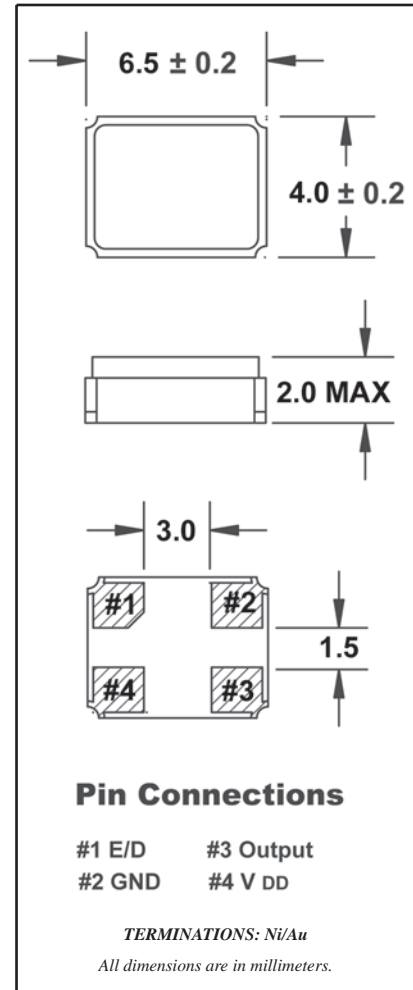
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	32.768 kHz
Temperature Range	
Operating (TOPR)	-40°C ~ +85°C
Storage (TSTG)	-40°C ~ +85°C
Frequency Tolerance @ 25°C	+30 ~ 0 PPM
Frequency Stability	
-10°C ~ +60°C	+30 ~ -60 PPM
-40°C ~ +85°C	+30 ~ -150 PPM
Supply Voltage (VDD) <sup>1</sup>	3.3V ± 10%
Input Current (IDD) (no load)	5 µA
Output Symmetry (50% VDD)	45% ~ 55%
Rise Time (10% ~ 90% VDD) (Tr)	80nS
Fall Time (90% ~ 10% VDD) (Tf)	80nS
Output Voltage (VOL)	10% VDD
(VOH)	90% VDD Min
Output Load (HCMOS)	15pF
Start-up Time (Ts)	500mS

<sup>1</sup> Usable at 1.5 ~ 6.0V.

<sup>2</sup> An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

Note: A 0.01µF bypass capacitor should be placed between VDD (Pin 4) and GND (Pin 2) to minimize power supply line noise.

The above specifications, having been carefully prepared and checked, is believed to be accurate at the time of publication; however, no responsibility is assumed by Fox Electronics for inaccuracies. All specifications subject to change without notice.



## • ENABLE / DISABLE FUNCTION

(Pin 1)	OUTPUT (Pin 3)
OPEN <sup>2</sup>	ACTIVE
'1' Level V <sub>IH</sub> ≥ 90% V <sub>DD</sub>	ACTIVE
'0' Level V <sub>IL</sub> ≤ 10% V <sub>DD</sub>	High Z

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Need a  
Sample®

## Discontinued

• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
FOX465	∅1.5	4.0	8.0	5.5	12.0	3.1	1,000

• REEL SPECIFICATIONS (millimeters)							
MODEL	G	H	I	J	K	L	M
FOX465	2.5	∅13	∅21	∅100	∅330	12.4	1.5

