

## Farnell Order Code: 1641009

# FOX MODEL: FXO-HC736R-33 FOX Part Number: 768-33-114

HCMOS, CERAMIC, SMD, OSCILLATOR

A. Specifications

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Parameters				
Frequency	33.000 MHz			
Frequency Stability 1	±25 PPM			
Temperature Range				
Operating (T <sub>OPR</sub> )	-40°C ~ +85°C			
Storage (T <sub>STG</sub> )	-55°C ~ +125°C			
Supply Voltage (V <sub>DD</sub> )	3.3V ± 5%			
Input Current (I <sub>DD</sub> )	35 mA Max			
Output Voltage (V <sub>OL</sub> )	10% V <sub>DD</sub> Max			
(V <sub>OH</sub> )	90% V <sub>DD</sub> Min			
Output Symmetry (50% V <sub>p-p</sub> Level)	45% ~ 55%			
Rise Time (10% ~ 90% V <sub>p-p</sub> ) (TR)	3 nS Max			
Fall Time (90% ~ 10% V <sub>p-p</sub> ) (TF)	3 nS Max			
Output Load (HCMOS)	15 pF Max			
Startup Time (T <sub>S</sub> )	10 ms Max			
Output Enable / Disable Time 2	100 nS Max			
Phase Jitter (12kHz ~ 20MHz)	< 1.1 pS Typ.			
Maximum Soldering Temp / Time	260°C / 10 Seconds			
Moisture Sensitivity Level (MSL)	1			
Termination Finish	Au			

<sup>&</sup>lt;sup>1</sup> Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

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

ENABLE/DISABLE FUNCTION <sup>2</sup>			
Pin 1	OUTPUT (Pin 3)		
OPEN <sup>2</sup>	ACTIVE		
'1' Level VIH ≥ 70%V <sub>DD</sub>	ACTIVE		
'0' Level VIL ≤ 30%V <sub>DD</sub>	High Z		

**NOTE**: A  $0.01\mu F$  bypass capacitor should be placed between  $V_{DD}$  (Pin4) and GND (Pin 2) to minimize power supply line noise.

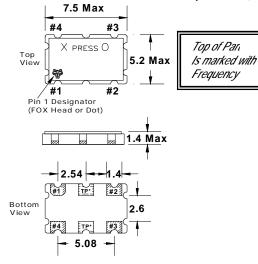
### RoHS Compliance Status: Compliant

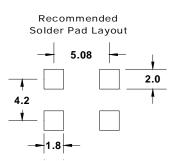


Drawing is for reference to critical specifications defined by size measurements.

Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary

#### B. Mechanical / Dimensions (millimeters):

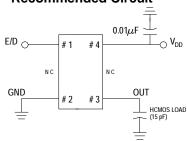




Note: XPRESSO HCMOS XOs are designed to fit or industry standard, 4 pad, layouts.

Pin Connections #1) E/D #3 Output #2 GND #4 VDD \*TP are test points and are NC

#### **Recommended Circuit**



<u>NOTE</u>: 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.

Reference / Comments	Title / Description: Product Specifications				
	Drawing Number: DWG-4549-27 Rev: 1			Size: A	
	3.3		Cage: 61429		
			N	Date: 08/25/2008	