

Farnell Order Code: 1641012

FOX MODEL: FXO-HC736R-48 FOX Part Number: 768-48-124

HCMOS, CERAMIC, SMD, OSCILLATOR

A. Specifications

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Parameters			
Frequency	48.000 MHz		
Frequency Stability 1	±25 PPM		
Temperature Range Operating (T _{OPR}) Storage (T _{STG})	-40°C ~ +85°C -55°C ~ +125°C		
Supply Voltage (V _{DD})	3.3V ± 5%		
Input Current (IDD)	35 mA Max		
Output Voltage (VoL) (VoH)	10% V _{DD} Max 90% V _{DD} Min		
Output Symmetry (50% V _{p-p} Level)	45% ~ 55%		
Rise Time $(10\% \sim 90\% V_{p-p})$ (TR) Fall Time $(90\% \sim 10\% V_{p-p})$ (TF)	3 nS Max 3 nS Max		
Output Load (HCMOS)	15 pF Max		
Startup Time (T _S)	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		

 $^{^{1}}$ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

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

ENABLE/DISABLE FUNCTION ²			
Pin 1	OUTPUT (Pin 3)		
OPEN ²	ACTIVE		
'1' Level VIH ≥ 70%V _{DD}	ACTIVE		
'0' Level VIL ≤ 30%V _{DD}	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.

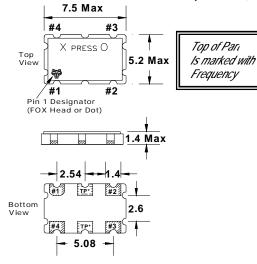
RoHS Compliance Status: Compliant

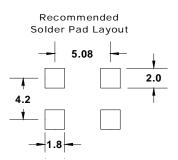


Drawing is for reference to critical specifications defined by size measurements.

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

B. Mechanical / Dimensions (millimeters):

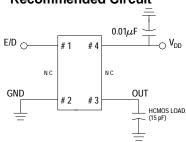




Note: XPRESSO HCMOS XOs are designed to fit or industry standard, 4 pad, layouts.

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

Recommended Circuit



NOTE: 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-4549-30 Rev: 1 Si			Size: A
	Part Number: 768-48-124 Cage: 61429 Draftsperson: AR Approved: BN Date: 08/25/2008		Cage: 61429	
			N	Date: 08/25/2008