

Farnell Order Code: 1641002

FOX MODEL: FXO-HC736R-20 FOX Part Number: 768-20-163

HCMOS, CERAMIC, SMD, OSCILLATOR

A. Specifications

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Parameters				
Frequency	20.000 MHz			
Frequency Stability 1	±25 PPM			
Temperature Range				
Operating (T _{OPR})	-40°C ~ +85°C			
Storage (T _{STG})	-55°C ~ +125°C			
Supply Voltage (V _{DD})	3.3V ± 5%			
Input Current (I _{DD})	32 mA Max			
Output Voltage (V _{OL})	10% V _{DD} Max			
(V _{OH})	90% V _{DD} Min			
Output Symmetry (50% V _{p-p} Level)	45% ~ 55%			
Rise Time (10% ~ 90% V _{p-p}) (TR)	3 nS Max			
Fall Time (90% ~ 10% V _{p-p}) (TF)	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			

 $^{^{\}rm 1}$ 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.

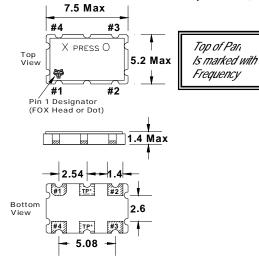
RoHS Compliance Status: Compliant

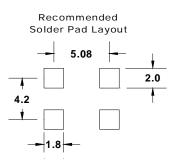


Drawing is for reference to critical specifications defined by size measurements.

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

B. Mechanical / Dimensions (millimeters):

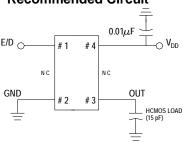




Note: XPRESSO HCMOS XOs are designed to fit or industry standard, 4 pad, layouts.

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	Reference / Comments Title / Description: Product Specifications					
	Drawing Number: DWG-4549-20 Rev: 1			Size: A		
	Part Number: 768-20-163 Ca		Cage: 61429			
	Draftsperson: AR	Approved: B	N	Date: 08/25/2008		