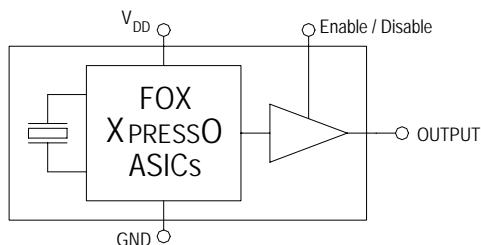


## Features

- XTREMELY Low Jitter
- Low Cost
- XPRESS Delivery
- Frequency Resolution to six decimal places
- Stabilities to  $\pm$  20 PPM
- -20 to +70°C or -40 to +85°C operating temperatures
- Tri-State Enable / Disable Feature
- Industry Standard Package, Footprint & Pin-Out
- Fully RoHS compliant
- Gold over Nickel Termination Finish
- Serial ID with Comprehensive Traceability



For more information -- Click on the drawing

## Description

The Fox XPRESSO Crystal Oscillator is a breakthrough in configurable Frequency Control Solutions. XPRESSO utilizes a family of proprietary ASICs, designed and developed by Fox, with a key focus on noise reduction technologies.

The 3<sup>rd</sup> order Delta Sigma Modulator reduces noise to the levels that are comparable to traditional Bulk Quartz and SAW oscillators. The ASICs family has ability to select the output type, input voltages, and temperature performance features.

With the XPRESS lead-time, low cost, low noise, wide frequency range, excellent ambient performance, XpressO is an excellent choice over the conventional technologies.

Finished XPRESSO parts are 100% final tested.

## Applications

- ANY application requiring an oscillator
- SONET
- Ethernet
- Storage Area Network
- Broadband Access
- Microprocessors / DSP / FPGA
- Industrial Controllers
- Test and Measurement Equipment
- Fiber Channel

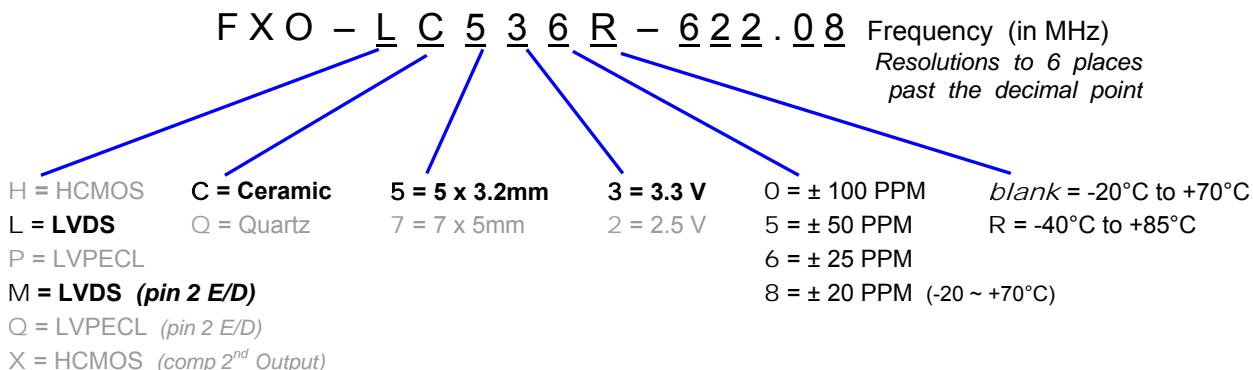
## Contents

	page
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## Model Selection Guide & Fox Part Number

**STEP #1:** Customer selects the Model Description and provides to Fox Customer Service

### Model Description



**STEP #2:** The Fox Customer Service team provides a customer specific Part Number  
for use on their Bill Of Materials (BOM).

**Fox Part Number** *(The assigned Fox Part Number must be on the BOM – not the above Model Description)  
(This will ensure receipt of the proper part)*

**The 1<sup>st</sup> Field**

Product Code #

767 = FXO-HC5

768 = FXO-HC7

**770 = FXO-LC5**

771 = FXO-LC7

773 = FXO-PC5

774 = FXO-PC7

770 - 622.08 - 2

**The 2<sup>nd</sup> Field**

The Customer's Frequency

**The 3<sup>rd</sup> Field**

Fox Internally Generated Number

*(If any specification changes,  
the last digits change)*

*(The same specs for a different customer  
also changes the last digits)*

*This example, FXO-LC536R-622.08 = LVDS Output, Ceramic, 5 x 3.2mm Package, 3.3V,  
±25 PPM Stability, -40 to +85°C Temperature Range, at 622.08 MHz*

**Electrical Characteristics**

Parameters	Symbol	Condition	Maximum Value (unless otherwise noted)
Frequency Range	$F_O$		0.750 MHz to 1.35 GHz
Frequency Stability <sup>1</sup>			100, 50, 25, & 20 ppm
Temperature Range	$T_O$ $T_{STG}$	Standard operating <i>Optional operating</i> Storage	-20°C to +70°C -40°C to +85°C -55°C to +125°C
Supply Voltage	$V_{DD}$	Standard	3.3 V ± 5%
Input Current (@ 100 Ohm LOAD)	$I_{DD}$	Standard Load	100 mA
Output Load		Standard	100 Ohms Typ.
Start-Up Time	$T_S$		10 mS
Output Enable / Disable Time			100 nS
Moisture Sensitivity Level	MSL	<i>JEDEC J-STD-20</i>	1
Termination Finish			Au

Note 1 – Stability is inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock and vibration.

**Absolute Maximum Ratings** *(Useful life may be impaired. For user guidelines only, not tested)*

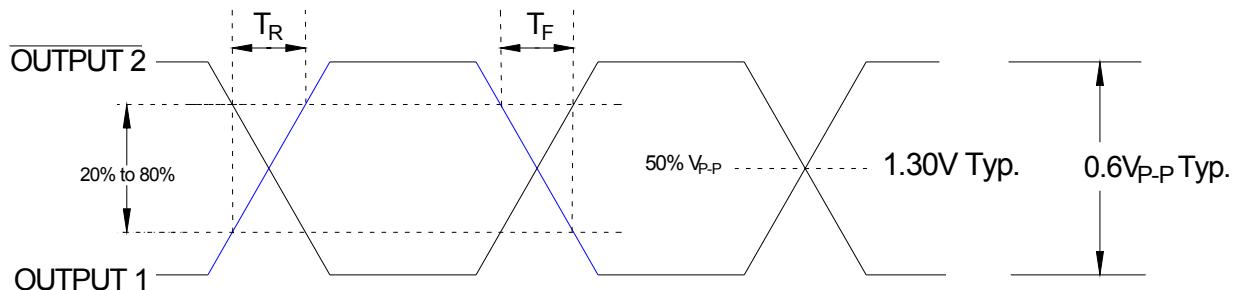
Parameters	Symbol	Condition	Maximum Value (unless otherwise noted)
Input Voltage	$V_{DD}$		-0.5V to +5.0V
Operating Temperature	$T_{AMAX}$		-55°C to +105°C
Storage Temperature	$T_{STG}$		-55°C to +125°C
Junction Temperature			150°C
ESD Sensitivity	HBM	Human Body Model	1 kV

## Output Wave Characteristics

Parameters	Symbol	Condition	Maximum Value (unless otherwise noted)
Differential Output Voltage	$V_{OD}$	0.75 MHz to 1.35 GHz	0.6V Typ.
Output Offset Voltage	$V_{OS}$	Volts DC	1.3V Typ.
Output Symmetry (See Drawing Below)		@ 50% $V_{P-P}$ Level	45% ~ 55%
Output Enable (PIN # 1) Voltage <sup>Note1</sup>	$V_{IH}$		> 70% $V_{DD}$
Output Disable (PIN # 1) Voltage <sup>Note1</sup>	$V_{IL}$		< 30% $V_{DD}$
Cycle Rise Time (See Drawing Below)	$T_R$	20%~80%	400 pS
Cycle Fall Time (See Drawing Below)	$T_F$	80%~20%	400 pS

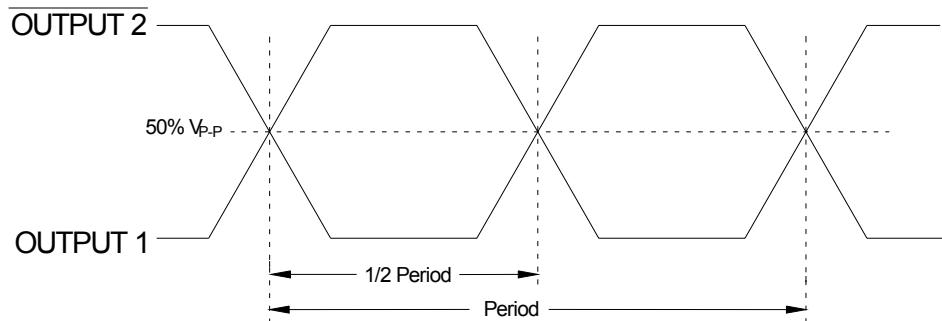
<sup>Note1</sup> An optional PIN # 2 as Enable / Disable is available – see Model Selection Guide (page 2)

## Rise Time / Fall Time Measurements

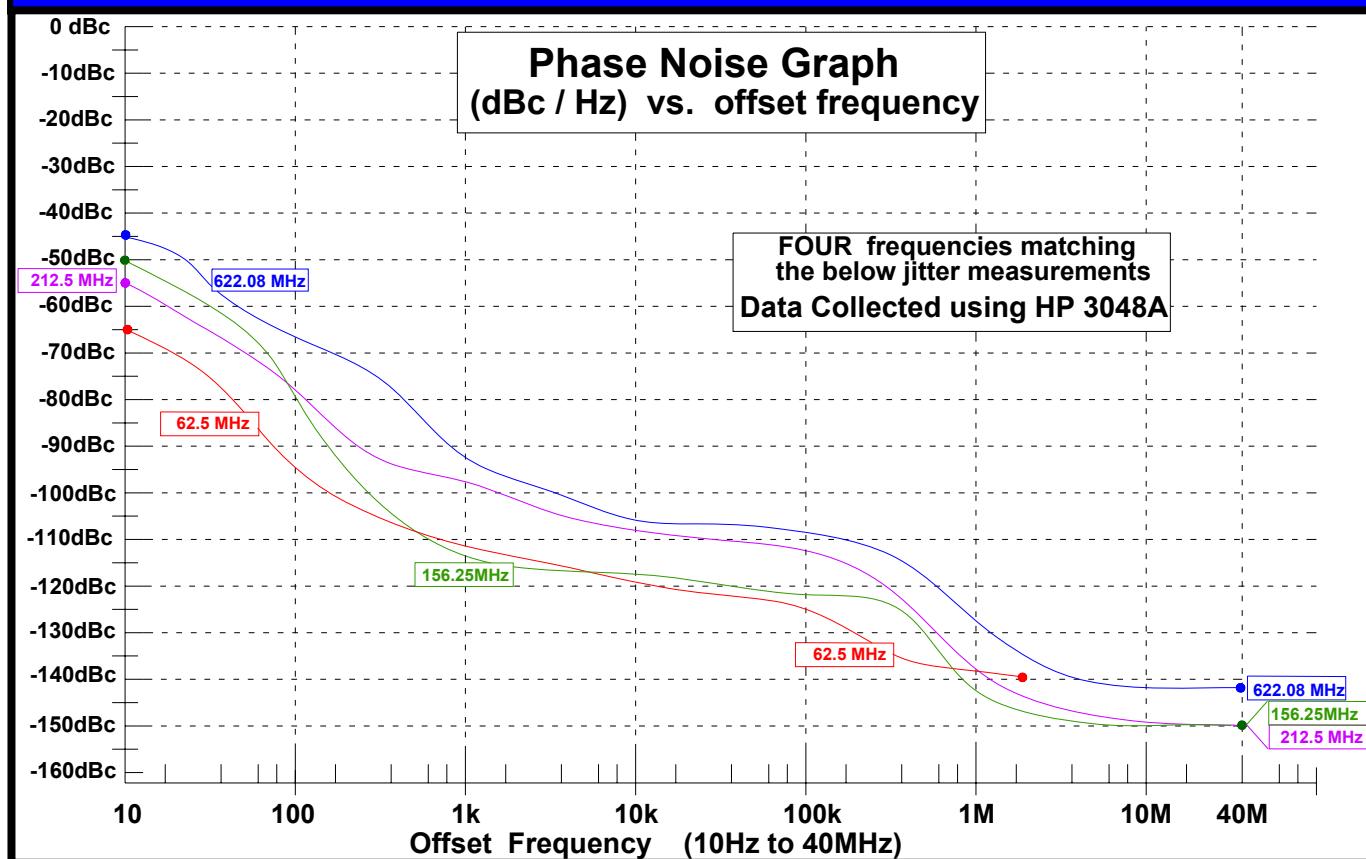


## Oscillator Symmetry

Ideally, Symmetry should be 50/50 for 1/2 period -- Other expressions are 45/55 or 55/45



## Phase Noise



Jitter is frequency dependent. Below are typical values at select frequencies.

## LVDS Phase Jitter &amp; Time Interval Error (TIE)

Frequency	Phase Jitter (12kHz to 20MHz)	TIE (Sigma of Jitter Distribution)	Units
62.5 MHz	0.77	3.0	pS RMS
156.25 MHz	1.19	3.6	pS RMS
212.5 MHz	0.89	3.9	pS RMS
622.08MHz	0.99	3.2	pS RMS

**Phase Jitter** is integrated from HP3048 Phase Noise Measurement System; measured directly into 50 ohm input;  $V_{DD} = 3.3V$ .

**TIE** was measured on LeCroy LC684 Digital Storage Scope, directly into 50 ohm input, with Amherst M1 software;  $V_{DD} = 3.3V$ .

Per **MJSQ spec** (Methodologies for Jitter and Signal Quality specifications)

## LVDS Random &amp; Deterministic Jitter Composition

Frequency	Random (Rj) (pS RMS)	Deterministic (Dj) (pS P-P)	Total Jitter (Tj) (14 x Rj) + Dj
62.5 MHz	1.3	7.0	24.9 pS
156.25 MHz	1.3	5.8	23.6 pS
212.5 MHz	0.9	6.7	18.7 pS
622.08 MHz	1.1	5.3	20.7 pS

**Rj and Dj** measured on LeCroy LC684 Digital Storage Scope, directly into 50 ohm input, with Amherst M1 software.

Per **MJSQ spec** (Methodologies for Jitter and Signal Quality specifications)

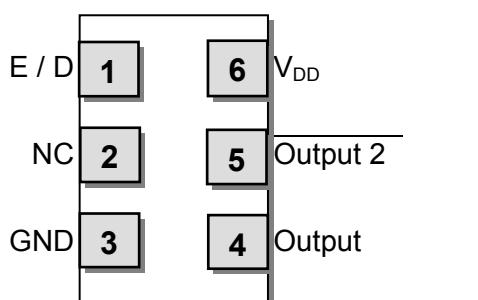
## Pin Description and Recommended Circuit

Pin #	Name	Type	Function
1	E / D <sup>1</sup>	Logic	Enable / Disable Control of Output (0 = Disabled)
2	NC		No Connection – Leave OPEN
3	GND	Ground	Electrical Ground for V <sub>DD</sub>
4	Output	Output	LVDS Oscillator Output
5	Output 2	Output	Complimentary LVDS Output
6	V <sub>DD</sub> <sup>2</sup>	Power	Power Supply Source Voltage

## NOTES:

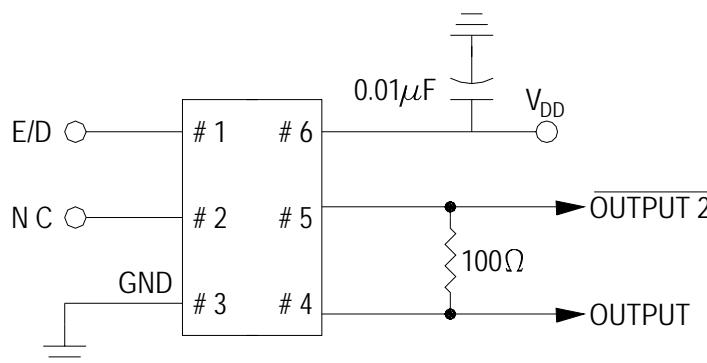
<sup>1</sup> Includes pull-up resistor to V<sub>DD</sub> to provide output when the pin (1) is No Connect.

<sup>2</sup> Installation should include a 0.01μF bypass capacitor placed between V<sub>DD</sub> (Pin 6) and GND (Pin 3) to minimize power supply line noise.



Terminations as viewed from the Top

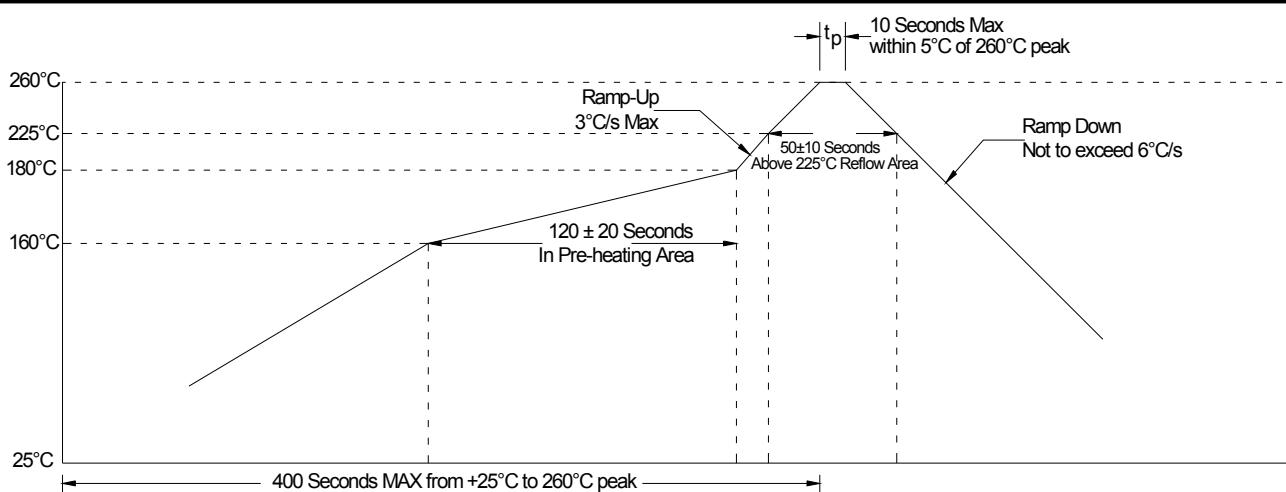
NOTE: XPRESSO LVDS XOs are designed to fit on Industry Standard, 6 pad layouts

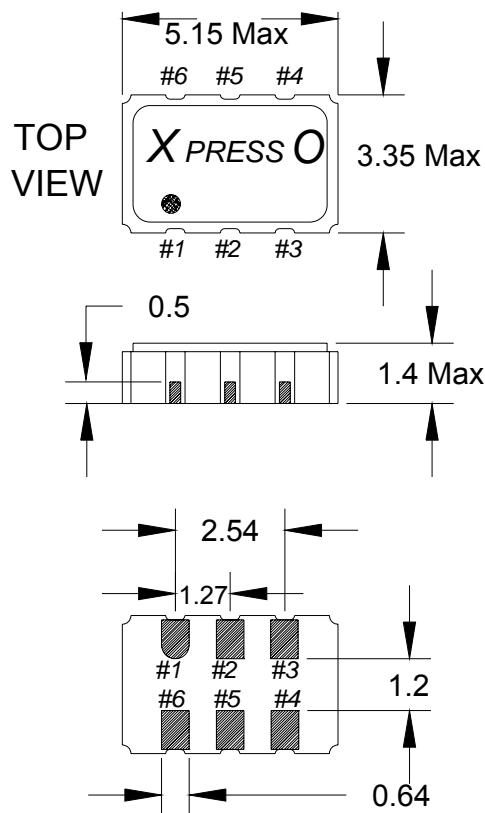


## Enable / Disable Control

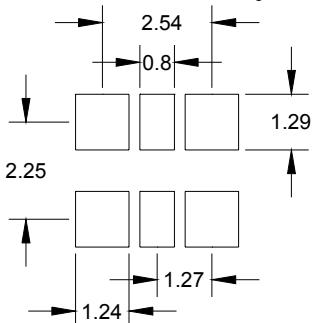
Pin # 1 (state)	Output (Pin # 4, Pin # 5)
OPEN (No Connection)	ACTIVE Output
"1" Level V <sub>IH</sub> > 70% V <sub>DD</sub>	ACTIVE Output
"0" Level V <sub>IL</sub> < 30% V <sub>DD</sub>	High Impedance

## Soldering Reflow Profile (2 times Maximum at 260°C for 10 seconds MAX)



**Mechanical Dimensional Drawing & Pad Layout**

Actual part marking  
is depicted.  
See **Traceability** (pg. 9)  
for more information

**Recommended  
Solder Pad Layout**

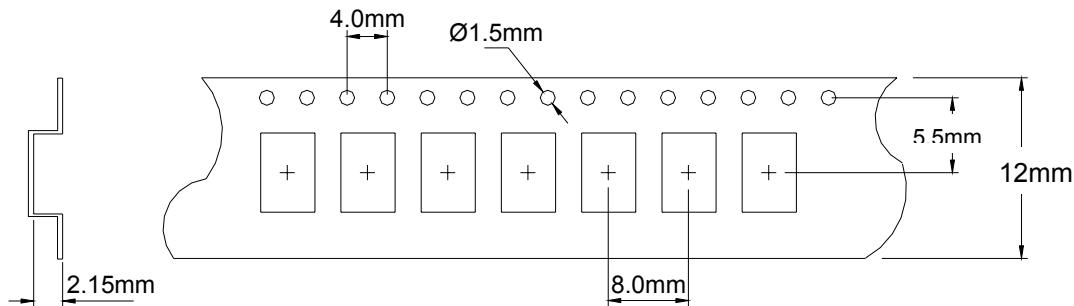
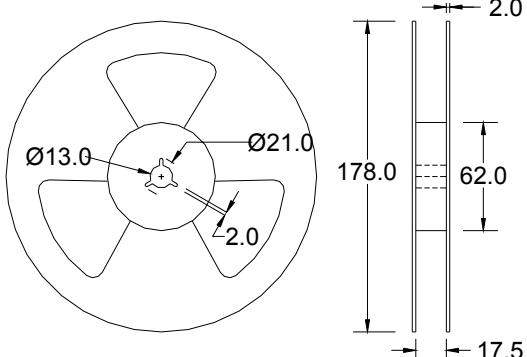
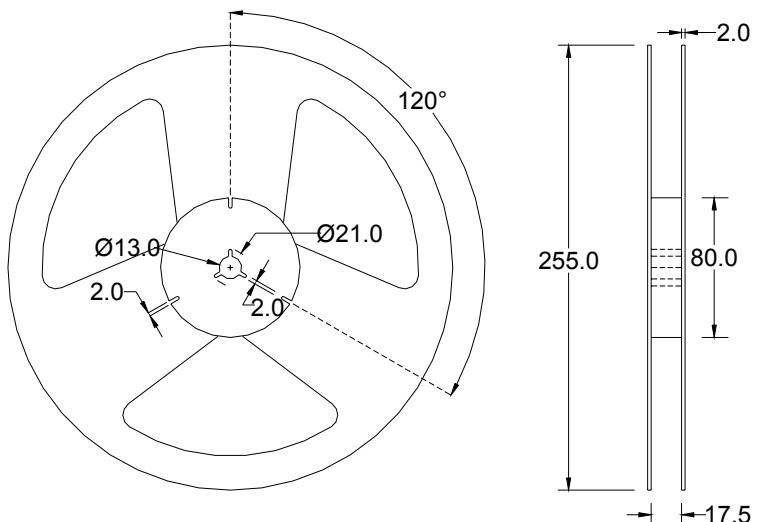
Note: XPRESSO LVDS XOs are designed to fit on  
Industry standard, 6 pad, layouts.

**Pin Connections**

#1) E/D	#4) Output
#2) NC	#5) Output 2
#3) GND	#6) V <sub>DD</sub>

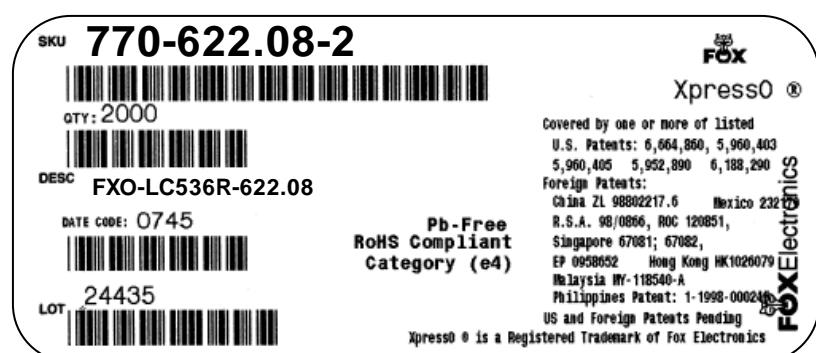
Drawing is for reference to critical specifications defined by size measurements.  
Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary

## Tape and Reel Dimensions

1k Reel Dimensions  
in mm2k Reel Dimensions  
in mm

## Labeling (Reels and smaller packaging are labeled with the below)

- Fox Part Number: **770-622.08-2**
- Quantity: **2000** pieces
- Description: **FXO-LC536R-622.08**
- Date Code **0745**  
(YYWW 2007 45<sup>th</sup> wk)
- LOT # **24435**  
*If traceability should become necessary*



An additional identification code is contained internally if tracking should ever be necessary

## Traceability – LOT Number & Serial Identification

### LOT Number

The LOT Number has direct ties to the customer purchase order. The LOT Number is marked on the "Reel" label, and also stored internally on non-volatile memory inside the XPRESSO part. XPRESSO parts that are shipped Tape and Reel, are also placed in an Electro Static Discharge (ESD) bag and will have the LOT Number labeled on the exterior of the ESD bag.

It is recommended that the XPRESSO parts remain in this ESD bag during storage for protection and identification.

If the parts become separated from the label showing the LOT Number, it can be retrieved from inside one of the parts, and the information that can be obtained is listed below:

- Customer Purchase Order Number
- Internal Fox Sales Order Number
- Dates that the XPRESSO part was shipped from the factory
- The assigned customer part number
- The specification that the part was designed for

---

### Serial Identification

The Serial ID is the individualized information about the configuration of that particular XPRESSO part. The Serial ID is unique for each and every XPRESSO part, and can be read by special Fox equipment.

With the Serial ID, the below information can be obtained about that individual, XPRESSO part:

- Equipment that the XPRESSO part was configured on
- Raw material used to configure the XPRESSO part
- Traceability of the raw material back to the foundries manufacturing lot
- Date and Time that the part was configured
- Any optimized electrical parameters based on customer specifications
- Electrical testing of the actual completed part
- Human resource that was monitoring the configuration of the part

Fox has equipment placed at key Fox locations World Wide to read the Lot Identification and Serial Number of any XPRESSO part produced and can then obtain the information from above within 24 hours

**RoHS Material Declaration**

	Material Name	Component	Content (mg)	Content (w t %)	(CAS Number)
Cover	Kovar	Nickel (Ni)	1.890	3.09%	7440-02-0
		Cobalt (Co)	1.113	1.82%	7440-48-4
		Iron (Fe)	3.540	5.78%	7439-89-6
Base	Ceramic	Alumina (Al <sub>2</sub> O <sub>3</sub> )	35.484	57.98%	1344-28-1
		Silicon Oxide (SiO <sub>2</sub> )	1.733	2.83%	14808-60-7
		Chromium Oxide (Cr <sub>2</sub> O <sub>3</sub> )	0.268	0.44%	1308-38-9
		Molybdenum Oxide (MoO <sub>2</sub> )	0.364	0.59%	18868-43-4
		Magnesium Oxide (MgO)	0.234	0.38%	1309-48-4
		Calcium Oxide (CaO)	0.253	0.41%	1305-78-8
	+ Metallization	Tungsten (W)	6.290	10.28%	7440-33-7
		Molybdenum (Mo)	0.195	0.32%	7439-98-7
	+ Nickel Plating	Nickel (Ni)	0.810	1.32%	7440-02-0
		Cobalt (Co)	0.203	0.33%	7440-48-4
	+ Gold Plating	Gold (Au)	0.281	0.46%	7440-57-5
	+ Seal ring	Iron (Fe)	2.438	3.98%	7439-89-6
		Nickel (Ni)	1.309	2.14%	7440-02-0
		Cobalt (Co)	0.768	1.25%	7440-48-4
	+ silver solder	Silver (Ag)	1.191	1.95%	7440-22-4
		Copper (Cu)	0.210	0.34%	7440-50-8
I C	I C	Aluminum (Al)	0.0021	0.00343%	7429-90-5
		Silicon (Si)	0.950	1.55%	7440-21-3
	Gold	Gold (Au)	0.480	0.784%	7440-57-5
	Adhesive	Silver (Ag)	0.000210	0.000343%	7440-22-4
		Epoxy	0.0000700	0.0001144%	
Crystal	Crystal	Silicon Dioxide (SiO <sub>2</sub> )	1.170	1.91%	14808-60-7
	Electrode	Silver (Ag)	0.019	0.0310%	7440-22-4
		Nickel (Ni)	0.000159	0.000260%	7440-02-0
	Adhesive	Silver (Ag)	0.00037	0.000605%	7440-22-4
		Silicon (Si)	0.000125	0.000204%	7440-21-3
<b>TOTAL</b>			<b>61.196</b>	<b>100.00%</b>	

**3<sup>rd</sup> Party (SGS) Material Report****Test Report**

No. 2053204/EC

Date : Mar 01 2006

Page 1 of 2

FOX ELECTRONICS  
5570 ENTERPRISE PARKWAY  
FT. MYERS, FL 33905

Report on the submitted sample said to be CERAMIC SEAM SEAL OSCILLATOR.

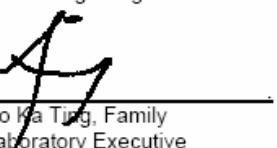
SGS Job No. : 1981176  
Supplier / Manufacturer : FOX ELECTRONICS  
Sample Receiving Date : FEB 17 2006  
Testing Period : FEB 18 - 24 2006

Test Requested : 1) To determine the Cadmium Content in the submitted sample.  
2) To determine the Lead Content in the submitted sample.  
3) To determine the Mercury Content in the submitted sample.  
4) To determine the Hexavalent Chromium Content on the submitted sample.  
5) To determine PBBs (polybrominated biphenyls) and PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : 1-3) With reference to EPA Method 3051/ 3052.  
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).  
4) With reference to EPA Method 3060A & 7196A.  
The sample was alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A (by UV-Vis Spectrophotometer).  
5) With reference to EPA Method 3540C/ 3550C. Analysis was performed by GC/MS or LC/ MS.

Test Results : 1-5) Please refer to next page.

Signed for and on behalf of  
SGS Hong Kong Ltd

  
Ho Ka Ting, Family  
Laboratory Executive

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.

3<sup>rd</sup> Party (SGS) Material Report (continued)**Test Report**

No. 2053204/EC

Date : Mar 01 2006

Page 2 of 2

Test Results :

<u>Test Item</u>	<u>1</u>	<u>Detection Limit</u>
1) Cadmium (Cd)	ND	2 ppm
2) Lead (Pb)	ND	2 ppm
3) Mercury (Hg)	ND	2 ppm
4) Hexavalent Chromium (Cr <sup>6+</sup> )	ND	2 ppm

(Results shown are of the total weight of samples)

Note : ppm = mg/kg

ND = Not Detected

Not detected is reported when the reading is less than detection limit value

5)

<u>Flame Retardants</u>	<u>1</u>	<u>Detection Limit</u>
<b>Polybrominated Biphenyls (PBBs)</b>	---	---
Monobromobiphenyl	ND	5 ppm
Dibromobiphenyl	ND	5 ppm
Tribromobiphenyl	ND	5 ppm
Tetrabromobiphenyl	ND	5 ppm
Pentabromobiphenyl	ND	5 ppm
Hexabromobiphenyl	ND	5 ppm
Heptabromobiphenyl	ND	5 ppm
Octabromobiphenyl	ND	5 ppm
Nonabromobiphenyl	ND	5 ppm
Decabromobiphenyl	ND	5 ppm
<b>Polybrominated Diphenylethers (PBDEs)</b>	---	---
Monobromodiphenyl ether	ND	5 ppm
Dibromodiphenyl ether	ND	5 ppm
Tribromodiphenyl ether	ND	5 ppm
Tetrabromodiphenyl ether	ND	5 ppm
Pentabromodiphenyl ether	ND	5 ppm
Hexabromodiphenyl ether	ND	5 ppm
Heptabromodiphenyl ether	ND	5 ppm
Octabromodiphenyl ether	ND	5 ppm
Nonabromodiphenyl ether	ND	5 ppm
Decabromodiphenyl ether	ND	5 ppm

Note : ppm = mg/kg

ND = Not Detected

Not detected is reported when the reading is less than detection limit value.

Sample Description:

1. Black Ceramic w/ Silvery, Golden Metal w/ Silvery Chips

\*\*\* End of Report \*\*\*

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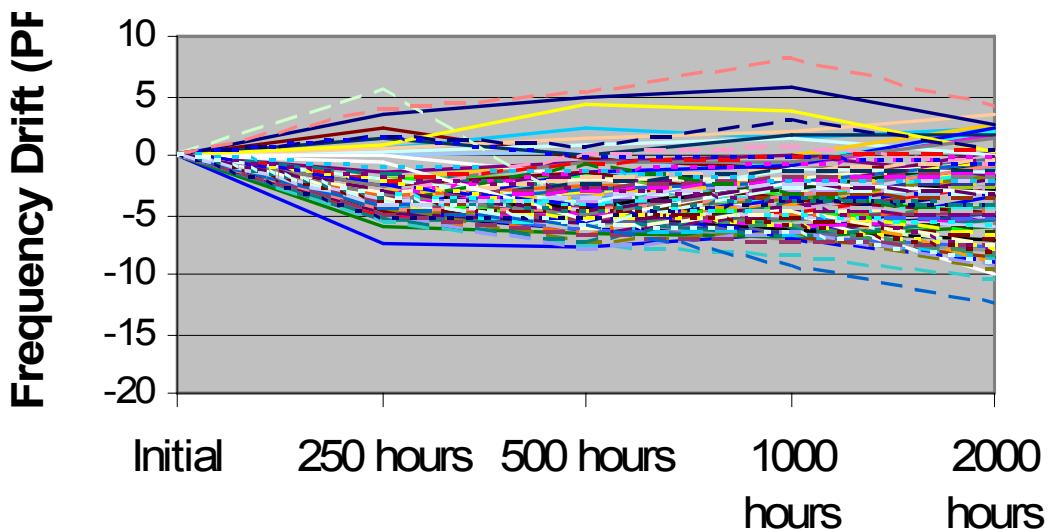
## Mechanical Testing

Parameter	Test Method
Mechanical Shock	Drop from 75cm to hardwood surface – 3 times
Mechanical Vibration	10~55Hz, 1.5mm amplitude, 1 Minute Sweep 2 Hours each in 3 Directions (X, Y, Z)
High Temperature Burn-in	Under Power @ 125°C for 2000 Hours (results below)
Hermetic Seal	He pressure: $4 \pm 1 \text{ kgf/cm}^2$ 2 Hour soak

## 2,000 Hour Burn-In

**Burn-In Testing** – under power 2000 Hours, 125°C

**Xpresso LVDS Burn-In**  
Freq = 10MHz; VDD = 3.3V; Ta = 125C; N = 120



## MTTF / FITS Calculations

Products are grouped together by process for MTTF calculations.  
(All XpressO output and package types are manufactured with the same process)

Number of Parts Tested: 360 (120 of each output type: HCMOS, LVDS, LVPECL)

Number of Failures: 0

Test Temperature: 125°C

Number of Hours: 2000

MTTF was calculated using the following formulas:

[1.] Device Hours (*devhrs*) = (number of devices) x (hours at elevated temperature in °K)

$$[2.] MTTF = \frac{devhrs \times af \times 2}{\chi^2}$$

$$[3.] FITS = \frac{1}{MTTF} * 10^9$$

Where:

Label	Name	Formula/Value
af	Acceleration Factor	$e^{(\frac{eV}{k}) \times (\frac{1}{t_1} - \frac{1}{t_2})}$
eV	Activation Energy	0.40 V
k	Bolzman's Constant	$8.62 \times 10^{-5}$ eV/°K
t <sub>1</sub>		Operating Temperature (°K)
t <sub>2</sub>		Accelerated Temperature (°K)
Θ	Theta	Confidence Level (60% industry standard)
r	Failures	Number of failed devices
χ <sup>2</sup>	Chi-Square	statistical significance for bivariate tabular analysis [table look-up] based on assumed Θ (Theta – confidence) and number of failures (r) For zero failures (60% Confidence): χ <sup>2</sup> = 1.830

DEVICE-HOURS = 360 x 2000 HOURS = 720,000

$$\text{ACCELERATION FACTOR} = e^{(\frac{0.40}{8.625}) \times (\frac{1}{298} - \frac{1}{398})} = 49.91009$$

$$MTTF = \frac{720,000 \times 49.91009 \times 2}{1.833} = 15,607,065 \text{ Hours}$$

$$\text{Failure Rate} = \frac{1.833}{720,000 \times 49.91009 \times 2} = 6.41E-8$$

$$FITS = \text{Failure Rate} * 1E9 = 64$$

**Notes :****Other XPRESSO Links**[XPRESSO Brochure](#)**Crystal Oscillators**[HCMOS 5 x 3.2mm 3.3V XO 0.75 to 250MHz](#)[HCMOS 7 x 5mm 3.3V XO 0.75 to 250MHz](#)[LVPECL 5 x 3.2mm 3.3V XO 0.75 to 1.35GHz](#)[LVPECL 7 x 5mm 3.3V XO 0.75 to 1.35GHz](#)[LVDS 5 x 3.2mm 3.3V XO 0.75 to 1.35GHz](#)[LVDS 7 x 5mm 3.3V XO 0.75 to 1.35GHz](#)**Voltage Controlled Crystal Oscillators**[HCMOS 5 x 3.2mm 3.3V VCXO 0.75 to 250MHz](#)[HCMOS 7 x 5mm 3.3V VCXO 0.75 to 250MHz](#)[LVPECL 5 x 3.2mm 3.3V VCXO 0.75 to 1.35GHz](#)[LVPECL 7 x 5mm 3.3V VCXO 0.75 to 1.35GHz](#)[LVDS 5 x 3.2mm 3.3V VCXO 0.75 to 1.35GHz](#)[LVDS 7 x 5mm 3.3V VCXO 0.75 to 1.35GHz](#)[Main Website \[www.foxonline.com\]\(http://www.foxonline.com\)](#)**Patent Numbers:**

US 6,664,860, US 5,960,403, US 5,952,890; US 5,960,405; US 6,188,290;

Foreign Patents: R.S.A. 98/0866, R.O.C. 120851; Singapore 67081, 67082; EP 0958652

China ZL 98802217.6, Malaysia MY-118540-A, Philippines 1-1998-000245, Hong Kong #HK1026079, Mexico #232179

US and Foreign Patents Pending

XpressO™ Fox Electronics

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Fax: +81.3.3377.5221

[Email: www.foxonline.com/email.htm](http://www.foxonline.com/email.htm)

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.

# Mouser Electronics

Authorized Distributor

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