

## Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

## **Features and Benefits**

Frequency range: 10MHz Supply voltage: 3.3V Steady current: 50mA Max Output waveform: LVPECL Frequency tolerance: ±25ppm Pulling range: ±50ppm Operating temperature: -20°C to +70°C Size: 3.2x2.5x0.9mm

## **Typical Applications**

High-speed ethernet Fiber channel HDTV ATM Set-top box WiMAX Server SAS SATA

#### **Description**

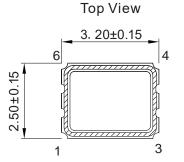
The VCXO3225AL-LVPECL-10MHz-111 is designed for applications where exceptional frequency stability and timing is required.

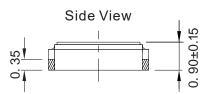
It has both excellent temperature performance and frequency stability.

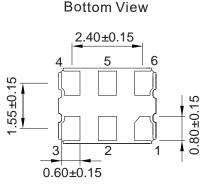
These characteristics make it an excellent choice for timing applications.

#### **Mechanical Drawing & Pin Connections**

Drawing No: MD240045-2







PIN	Function						
#1	Control Voltage						
#2	OE/Tri-State						
#3	GND						
#4	Output						
#5	Complementary Output						
#6	Supply Voltage						

Unit in mm

#### 1mm = 0.0394 inches

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Rev. 1

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



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2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com Low Phase Jitter Small Size VCXO

#### **Specifications**

Oscillator	Sym	Condition		Value			Nata	
Specification			Min.	Тур.	Max.	Unit	Note	
Frequency Range	Fnom			10		MHz		
RF Output								
Signal Waveform				LVPECL				
Output Load	R∟		50ohm into Vcc-2V					
H-Level Voltage	V <sub>H</sub>		V <sub>cc</sub> - 1.025V			V		
L- Level Voltage	VL				V <sub>cc</sub> - 1.62V	V		
Duty Cycle			45		55	%		
Rise/Fall time					1	nS		
Power Supply								
Supply Voltage	V <sub>cc</sub>			3.3		V		
Start up Time	T <sub>up</sub>				10	mS		
Current					50	mA		
Frequency Adjustment Range								
EFC voltage			0.3		3.0	V		
Electronic Frequency Control (EFC)			±50			ppm		
Input Impedance			1			MΩ		
Linearity					10	%		
Frequency Stability								
Frequency Tolerance				±25		ppm		
Environmental, Mechanical Conditions								
Operating temperature range	-20°C to +7	-20°C to +70°C						
Storage temperature range	-55°C to +1	25°C						