

## 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: CMOS Frequency tolerance: ±50ppm Pulling range: ±50ppm Operating temperature: -20°C to +70°C Size: 3.2x2.5x0.95mm

## **Typical Applications**

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

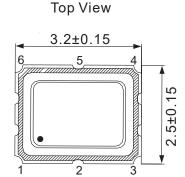
#### **Description**

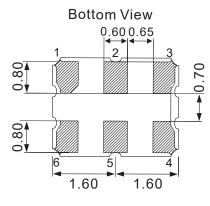
The VCXO3225AL-CMOS-10MHz-121 is designed for applications where exceptional frequency stability and timing is required.

It has both excellent temperature performance and frequency stability.

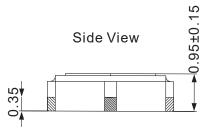
These characteristics make it an excellent choice for timing applications.

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





Dynamic Engineers, Inc.



PIN	Function				
#1	Control Voltage				
#2	OE/Tri-State				
#3	GND				
#4	Output				
#5	N.C.				
#6	Supply Voltage				
Lingto because					

Unit in mm 1mm = 0.0394 inches

Drawing No: MD240045-1

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.

Rev. 1



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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 10MHz VCXO

## **Specifications**

Oscillator	Sym	Condition	Value			Unit	Nete
Specification			Min.	Тур.	Max.	Unit	Note
Frequency Range	Fnom			10		MHz	
RF Output							
Signal Waveform			CMOS				
Load	RL		15			pF	
H-Level Voltage	V <sub>H</sub>		90% V <sub>cc</sub>			V	
L- Level Voltage	VL				10% V <sub>cc</sub>	V	
Duty Cycle			45		55	%	
Rise/Fall time					5	nS	
Power Supply							
Supply Voltage	V <sub>cc</sub>			3.3		V	
Start up Time	T <sub>up</sub>				2	mS	
Current					50	mA	
Frequency Adjustment Range							
EFC voltage			0.3		3.0	V	
Electronic Frequency Control (EFC)			±50			ppm	
Input Impedance			1			MΩ	
Frequency Stability							
Frequency Tolerance				±50		ppm	
Environmental, Mechanical Conditions							
Operating temperature range	-20°C to +70°C						