XO2520BL-ULJ\_CMOS-25MHz-233

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

#### **Features and Benefits**

Frequency range: 25MHz Supply voltage: 3.3V Current: 10mA Max.

Frequency stability vs. temperature: ±100PPM

Aging: ±3PPM 1st year

Operating temperature: -40°C to +85°C

Size: 2.5x2.0x0.9 mm

#### **Typical Applications**

- Wearable device
- Sport Video Cams
- Ultra-small Notebook PC
- Mobile Phones
- -Digital Circuit

### **Description**

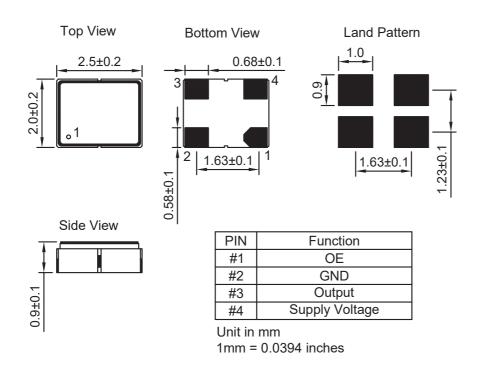
XO2520BL-ULJ\_CMOS-25MHz-233 is the ultra-low jitter crystal oscillator.

The RMS phase jitter can be 48fs typical. It can be widely used in the digital circuit and communication applications.

## **Mechanical Drawing & Pin Connections**

**Drawing No:** 

MD230031-1





# Dynamic Engineers Inc.

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## XO2520BL-ULJ\_CMOS-25MHz-233

Ultra-Low Jitter Crystal Oscillator

## **Specifications**

Condition  0  0  0  0  0  0  0  0  0  0  0  0  0	2.97	<b>Typ.</b> 25 15	Max.	MHz pF	
	2.97	-			
@10%-90% of V <sub>cc</sub>	2.97	15		pF	
@10%-90% of V <sub>cc</sub>	2.97	15		pF	
@10%-90% of V <sub>cc</sub>	2.97				
@10%-90% of Vcc				V	
@10%-90% of V <sub>cc</sub>			0.33	V	
		1.5	5	ns	
	45		55	%	
		0.8	5	ms	
Enable output	70%V <sub>cc</sub>			V	
Disable output			30%Vcc	V	
Enable			1	ms	
Disable			200	ns	
±10%		3.3		V	
		7	10	mA	
		0	0.5		
		9	35	uA	
@25°C			±1.0	ppm	
@-40°C to +85°C			±100	ppm	
1 <sup>st</sup> year			±3.0	ppm	
10Hz		-68			
100Hz		-102			
1KHz		-139			
10KHz		-157		dBc/Hz	
100KHz		-170			
1MHz		-166			
5MHz		-168			
		40	200	fo	
		48	300	IS	
-40°C to +85°C					
-55°C to +150 °C					
	Enable Disable  ### ### ############################	Enable Disable  ### 10%  ### 25°C  @-40°C to +85°C  ### 10Hz ### 10Hz ### 10Hz ### 10Hz ### 10KHz ### 10KH	Enable Disable  2cc ±10% 3.3 7 9  25°C  25°C  2-40°C to +85°C  1st year 10Hz -68 100Hz -102 1KHz -139 10KHz -157 100KHz -157 100KHz -170 1MHz -166 5MHz -168 48	Enable Disable 200	Enable Disable Disable  200 Disable