XO3225BL-ULJ_CMOS-25MHz-1&3

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: ±50PPM

Aging: ±3PPM 1st year

Operating temperature: -10°C to +70°C

Size: 3.2x2.5x1.0 mm

Typical Applications

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

Description

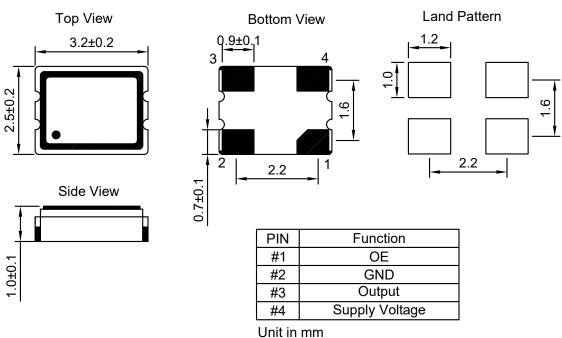
XO3225BL-ULJ_CMOS-25MHz-123 is the ultra-low jitter crystal oscillator.

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:

MD230030-1





Dynamic Engineers Inc.

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Ultra-Low Jitter Crystal Oscillator

Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Тур.	Max.		
Operational Frequency	f_0			25		MHz	
RF Output							
Output Load				15		pF	
Output Level High			90%V _{cc}			V	
Output Level Low					10%V _{cc}	V	
Rise / Fall Time		@10%-90% of V _{cc}		1.5	5	ns	
Duty Cycle			45		55	%	
Startup Time				8.0	5	ms	
Output Enable/Disable		Enable output	70%V _{cc}			V	
Function on PIN1		Disable output			30%Vcc	V	
Enable/Disable Time		Enable			1	ms	
		Disable			200	ns	
Power Supply	_						
Voltage	V_{cc}	±10%		3.3		V	
Current				7	10	mA	
Current With Output Disable				9	35	uA	
Frequency Stability							
Supply Voltage Vs. Frequency Sensitivity		@25°C			±1.0	ppm	
Vs. Temperature		@-10°C to +70°C			±50	ppm	
Aging@+25°C		1 st year			±3.0	ppm	
RMS Jitter (12KHz-20MHz)				48	300	fs	
Environmental Condition	าร						
Operating temperature range		-10°C to +70°C					
Storage temperature range		-55°C to +150 °C					