Ultra-Low Jitter Crystal Oscillator

XO3225BL-ULJ_CMOS-25MHz-133

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: -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-133 is the ultra-low jitter crystal oscillator.

The RMS phase jittercan be 48fs typical.

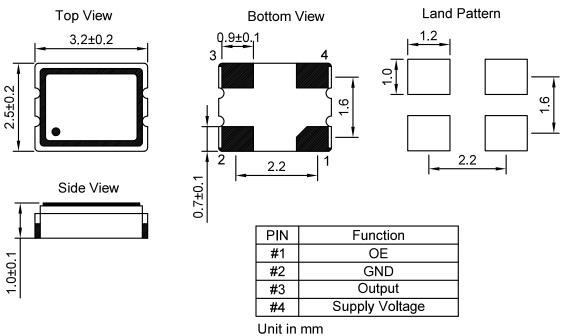
It can be widely used in the digital circuit and communication applications.

Mechanical Drawing & Pin Connections

Drawing No:

MD230030-1

3



1mm = 0.0394 inches



Dynamic Engineers Inc.

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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%Vcc			V	
Output Level Low					10%Vcc	V	
Rise / Fall Time		@10%-90% of Vcc		1.5	5	ns	
Duty Cycle			45		55	%	
Startup Time				0.8	5	ms	
Output Enable/Disable		Enable output	70%Vcc			V	
Function on PIN1		Disable output			30%Vcc	V	
Enable/Disable Time		Enable			1	ms	
		Disable			200	ns	
Power Supply							
Voltage	Vcc	±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			±100	ppm	
Aging@+25°C		1 st year			±3.0	ppm	
RMS Jitter				48	300	fs	
(12KHz-20MHz)				40	300	15	
Environmental Condition							
Operating temperature range		-10°C to +70°C					
Storage temperature range		-55°C to +150 °C					