



Features and Benefits

Frequency range: 25MHz

Supply voltage: 3.3V

Current: 10mA Max.

Frequency stability vs. temperature: ± 50 PPM

Aging: ± 3 PPM 1st year

Operating temperature: -10°C to $+70^{\circ}\text{C}$

Size: 3.2x2.5x1.0 mm

Typical Applications

Wearable device

Sport Video Cams

Ultra-small Notebook PC

Mobile Phones

Digital Circuit

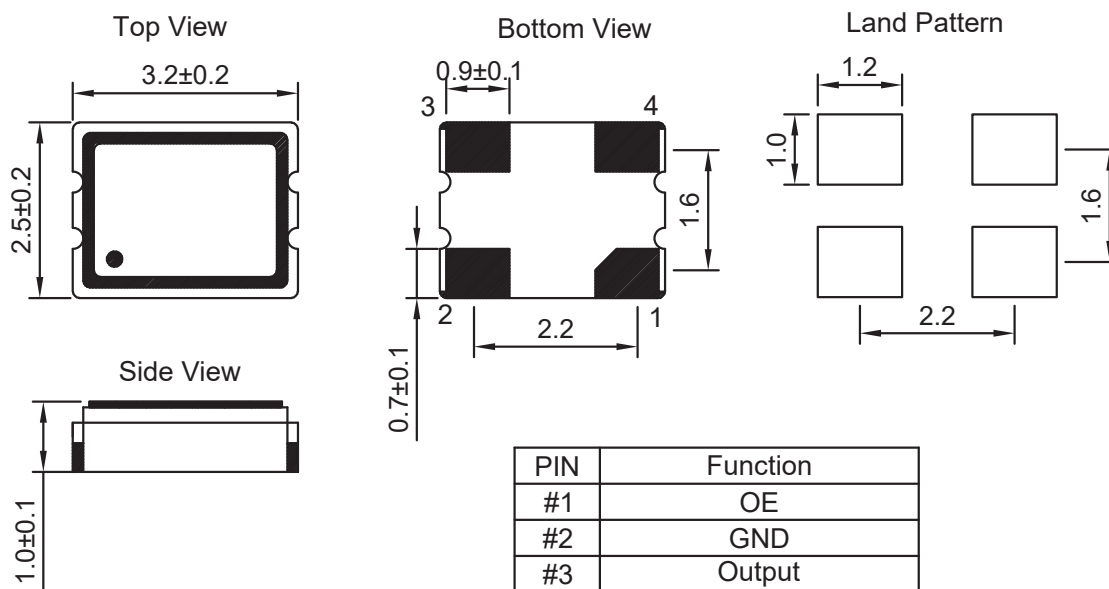
Description

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



Unit in mm

1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	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				0.8	5	ms	
Output Enable/Disable Function on PIN1		Enable output	70%V _{CC}			V	
		Disable output			30%V _{CC}	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 Conditions							
Operating temperature range		-10°C to +70°C					
Storage temperature range		-55°C to +150 °C					