Dynamic Engineers Inc.

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Features and Benefits

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

Frequency stability vs. temperature: ±25PPM

Aging: ±3PPM 1st year

Operating temperature: -10°C to +70°C

Size: 5.0x3.2x1.2 mm

Typical Applications

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

Description

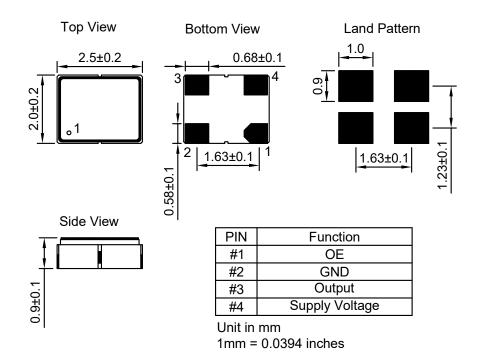
XO5032BL-ULJ_CMOS-25MHz-113 is the ultra-low jitter crystal oscillator.

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





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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			2.97			V	
Output Level Low					0.33	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%V _{cc}			V	
Function on PIN1		Disable output			30%V _{cc}	V	
Enable/Disable Time		Enable			1	ms	
		Disable			200	ns	
Power Supply	1				<u> </u>		
Voltage	Vcc	±10%		3.3		V	
Current				7	10	mA	
Current With Output				9	35	uA	
Disable				9	33	uA	
Frequency Stability							
Supply Voltage Vs.		@25°C			±1.0	ppm	
Frequency Sensitivity		920 0			21.0	PPIII	
Vs. Temperature		@-10°C to +70°C			±25	ppm	
Aging@+25°C		1 st year			±3.0	ppm	
SSB phase noise		10Hz		-68		dBc/Hz	
		100Hz		-102			
		1KHz		-139			
		10KHz		-157			
		100KHz		-170			
		1MHz		-166		[
		5MHz		-168			
RMS Jitter				48	300	fs	
(12KHz-20MHz)				70	300	13	
Environmental Condition							
Operating temperature range		-10°C to +70°C					
Storage temperature range		-55°C to +150 °C					