

Dynamic Engineers Inc.

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

Features and Benefits

Frequency range: 10MHz Supply voltage: 0.9V Current: 1.5mA Max. Frequency stability vs. temperature: ±25PPM Aging: ±3PPM per year Operating temperature: -10°C to +60°C Size: 3.2x2.5x0.95 mm

Typical Applications

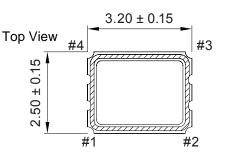
loT Smartphone Digital Camera Game Console Wearable Device Digital Consumer Electronics

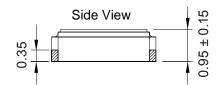
Description

XO3225BM01-LP-10MHz-111 is the low power crystal oscillator. The power consumption can be less than 1.5mA. It can be widely used in the low power consumption applications.

Mechanical Drawing & Pin Connections

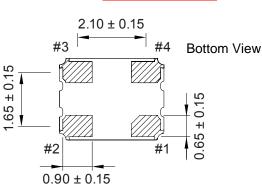
Drawing No: MD220023-1



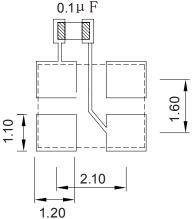


Pin#	Function				
1	Tri-state				
2	GND				
3	Output				
4	Vcc				

Unit in mm 1mm = 0.0394 inches



Recommended Soldering Pattern



To ensure optimal oscillator performance, place a by-pass capacitor of 0.1uF as close to the part as possible between Vcc and GND PAD

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



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Specifications

Oscillator	Sy	Condition	Value			Unit	Note
Specification	m		Min.	Тур.	Max.		
Operational Frequency	f ₀			10		MHz	
RF Output							
Output Waveform				CMOS			
Output level		High	2.97			V	
		Low			0.33	V	
Load				15		pF	
Duty Cycle			45		55	%	
Rise & Fall Time		measured between 10% and 90% of Vcc, with an output load of 15pF			4	ns	
Tri-State (Input to Pin1)		Enable (High voltage or floating)	$0.7 V_{cc}$			V	
		Disable (Low voltage or GND)			0.3 V _{cc}	V	
Startup Time					4	ms	
Power Supply							
Voltage	Vcc	±5%		0.9		V	
Current -		At 15pF load			1.5	mA	
		No load condition			0.9	mA	
Stand by Current					100	uA	
Frequency Stability				1	1		
Versus Temperature		@-10°C to +60°C			±25	ppm	
Period jitter (Pk-Pk)					40	ps	
RMS phase jitter		Integrated 12KHz to 20MHz			1	ps	
Aging@+25°C		1 st year			±3.0	ppm	
Environmental Condition	ons _						
Operating temperature ra	ange	-10°C to +60°C					
Storage temperature range	ge	-55°C to +125°C					