Features and Benefits

Frequency range: 10MHz Supply voltage: 0.9V Current: 1.5mA Max.

Frequency stability vs. temperature: ±50PPM

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

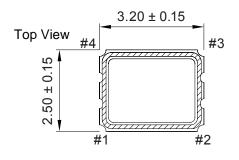
XO3225BM01-LP-10MHz-121 is the low power crystal oscillator.

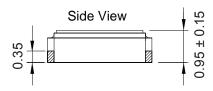
V@Á[¸^¦Á&[}•~{] αã[}Á&æ)Áà^ÁÁess than 1.5mA. It can be widely used in the low power consumption applications.

Mechanical Drawing & Pin Connections

Drawing No:

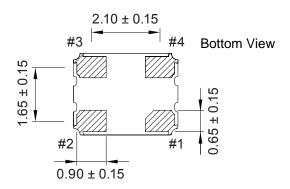
MD220023-1



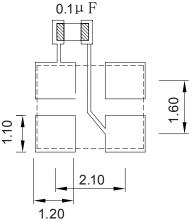


Pin#	Function				
1	Tri-state				
2	GND				
3	Output				
4	Vcc				

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 Inc.

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XO3225BM01-LP-10MHz-121

Ultra-low Power Crystal Oscillator

Specifications

Oscillator	Sy	Condition	Value			Unit	Note
Specification	n m Condition	Condition	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	V_{cc}	±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						
Versus Temperature		@-10°C to +60°C			±50	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 Conditio	ns						
Operating temperature range -10°C to +60°C							
Storage temperature range	je	-55°C to +125°C					