XO2520BM01-LP-10MHz-221

Ultra-low Power Crystal Oscillator

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: ±50PPM

Aging: ±3PPM per year

Operating temperature: -20°C to +70°C

Size: 2.5x2.0x0.81 mm

Typical Applications

ΙoΤ Smartphone Digital Camera Game Console Wearable Device **Digital Consumer Electronics**

Description

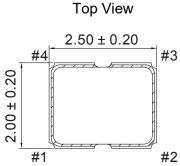
XO2520BM01-LP-10MHz-221 is the low power crystal oscillator.

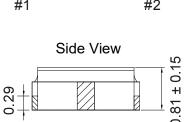
The power consumption can be less than 1.5mA. It can be widely used in the low power consumption applications.

Mechanical Drawing & Pin Connections

Drawing No:

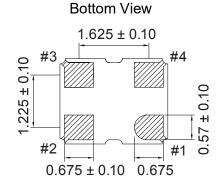
MD220022-1



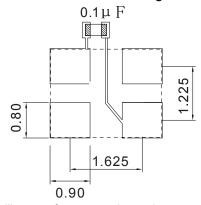


Pin#	Function					
1	Tri-state					
2	GND					
3	Output					
4	Vcc					
Limit in more						

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



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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			
Load				15		pF	
Duty Cycle			45		55	%	
Rise & Fall Time					3	ns	
Tri-State		Enable (High voltage or floating)	0.7 V _{cc}			V	
(Input to Pin1)		Disable (Low voltage or GND)			0.3 V _{cc}	V	
Startup Time					4	ms	
Power Supply							
Voltage	Vcc	±5%		0.9		٧	
Current		At 15pF load			1.5	mA	
		No load condition			1.0	mA	
Stand by Current					100	uA	
Frequency Stability							
Versus Temperature		@-20°C to +70°C			±50	ppm	
Aging@+25°C		1 st year			±3.0	ppm	
Environmental Condition	ns						
Operating temperature ra	inge	-20°C to +70°C					