

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: 2.5x2.0x0.81 mm

Typical Applications

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

Description

XO2520BM01-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:

MD220022-1



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 (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			1.0	mA	
Stand by Current					100	uA	
Frequency Stability	1						
Versus Temperature		@-10°C to +60°C			±25	ppm	
Aging@+25°C		1 st year			±3.0	ppm	
Environmental Conditions							
Operating temperature range -10°C to +60°C							