



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

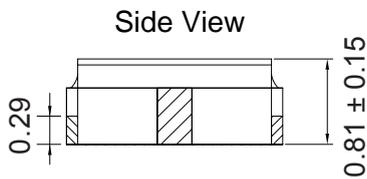
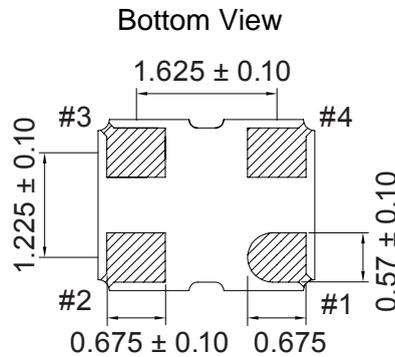
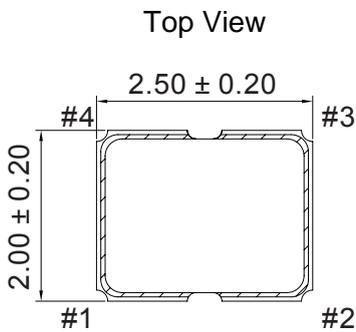
IoT
Smartphone
Digital Camera
Game Console
Wearable Device
Digital Consumer Electronics

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

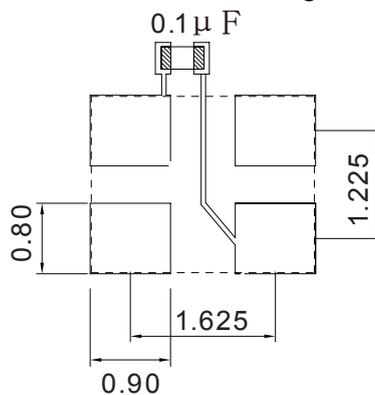
Drawing No: MD220022-1



Pin#	Function
1	Tri-state
2	GND
3	Output
4	V _{CC}

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 V_{CC} and GND PAD



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	f _o			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	V _{cc}	±5%		0.9		V	
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 Conditions							
Operating temperature range		-20°C to +70°C					