



### Features and Benefits

- Frequency range: 11.0592MHz
- Supply voltage: 3.3V
- Current: 40mA Max.
- Frequency stability vs. temperature: ±50PPM
- Aging: ±3PPM 1<sup>st</sup> year
- Operating temperature: -40°C to +85°C
- Size: 7x5x1.3mm
- Package type: SMD



### Typical Applications

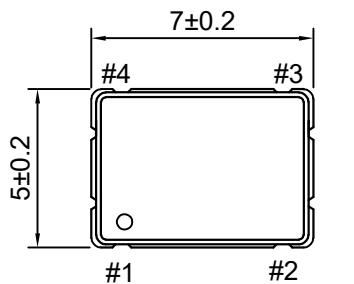
- Wearable device
- Sport Video Cams
- Ultra-small Notebook PC
- Mobile Phones
- Digital Circuit

### Description

XO7500BL-LJ-11.0592MHz-A is the ultra-low jitter crystal oscillator. It can be widely used in digital circuits and communication applications.

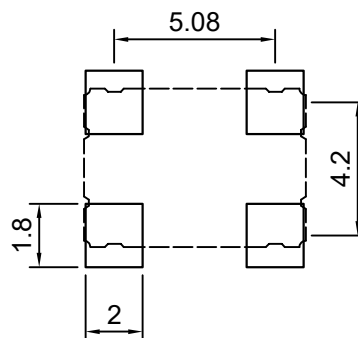
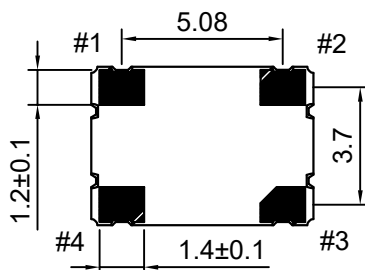
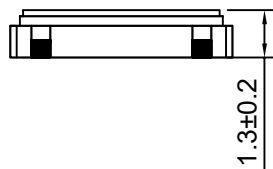
### Mechanical Drawing & Pin Connections

**Drawing No:** MD2500013-1



PAD	Function
#1	OE
#2	Ground
#3	Output
#4	Supply Voltage

Unit in mm  
1mm = 0.0394 inches



**Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	f <sub>0</sub>			11.0592		MHz	
<b>RF Output</b>							
Output Wave			CMOS				
Output Load					15	pF	
Output Level High			2.9			V	V <sub>cc</sub> -0.4V
Output Level Low					0.4	V	
Rise / Fall Time		@10%-90%		1.1	3	nS	
Duty Cycle			45	50	55	%	
Startup Time				4.5	10	mS	
OE Control on Pad 1			If V <sub>cc</sub> x 70% (min.) is applied: Output. Enable				
			If V <sub>cc</sub> x 30% (max.) is applied: Output Disable				
OE Mode. High Enable			Disable Current : 18 mA ( typ. ) , 22 mA ( max. )				
			Output Enable Time : 10 nsec. ( max. )				
<b>Power Supply</b>							
Voltage	V <sub>cc</sub>	±10%		3.3		V	
Current		measured with terminating resistors		30	40	mA	
<b>Frequency Stability</b>							
Vs. Temperature		@-40°C to +85°C	-50		+50	ppm	
Aging		1 <sup>st</sup> year	-3		+3	ppm	
RMS Jitter		12KHz-20MHz integrated		0.9		pS	
<b>Environmental Conditions</b>							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-55°C to +150°C					