

Dynamic Engineers Inc.

Website: <u>www.DynamicEngineers.com</u> Email: <u>Inquiry@DynamicEngineers.com</u>

Features and Benefits

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



MD2500013-1

Drawing No:

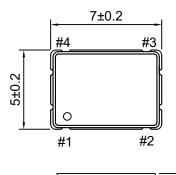
Typical Applications

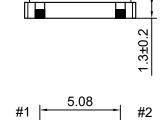
Wearable device Sport Video Cams Ultra-small Notebook PC Mobile Phones Digital Circuit

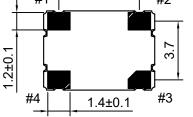
Description

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

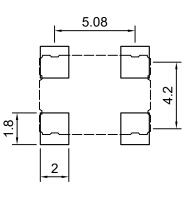






PAD	Function
#1	OE
#2	Ground
#3	Output
#4	Supply Voltage

Unit in mm 1mm = 0.0394 inches



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Rev. 1

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Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Тур.	Max.		
Operational Frequency	f ₀			11.0592		MHz	
RF Output							
Output Wave			CMOS				
Output Load					15	pF	
Output Level High			2.9			V	Vcc-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 Vcc x 70% (min.) is applied: Output. Enable If Vcc 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.)				
Power Supply							
Voltage	Vcc	±10%		3.3		V	
Current		measured with terminating resistors		30	40	mA	
Frequency Stability							
Vs. Temperature		@-40°C to +85°C	-50		+50	ppm	
Aging		1 st year	-3		+3	ppm	
RMS Jitter		12KHz-20MHz integrated		0.9		pS	
Environmental Condition							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-55°C to +150°C					

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