



# Dynamic Engineers Inc.

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## Features and Benefits

- 7.0x5.0x1.30 mm size
- Frequency range from 1MHz to 170MHz
- Low voltage operation: 1.8V~5.0V
- Low current consumption
- 3-state function
- Automatic mounting and reflow soldering
- RoHS Compliant /Pb Free

## Typical Applications

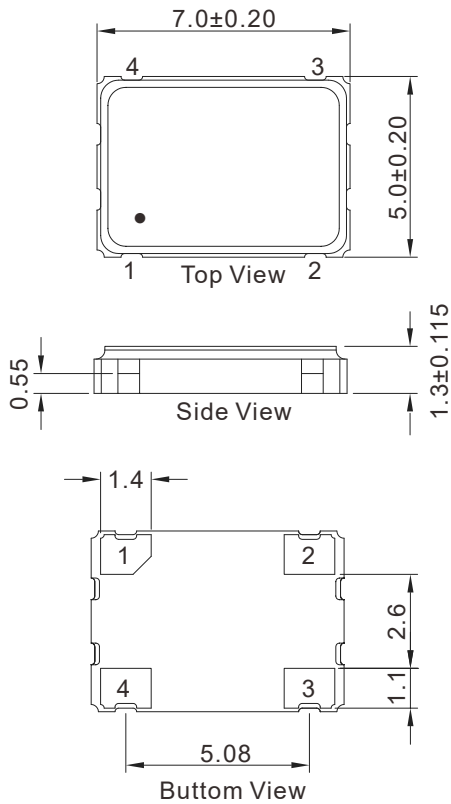
FC-HBA, LCDM, SONET,  
FA equipment applications, Sever, etc.

## Description

XO7500AL offers frequency range from 1MHz to 170MHz, high precision and high frequency stability, allowing for high density surface mounting, ideally suited designed for use in Portable Applications.

## Mechanical Drawing & Pin Connections

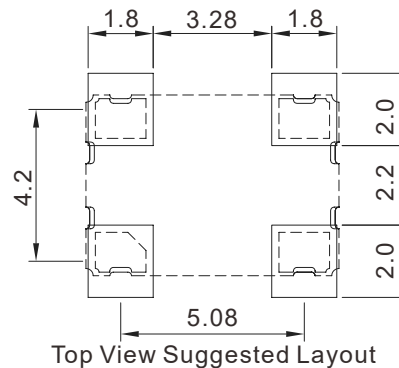
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### Pin Connections

Pin No.	Connection
1	OE (Output Enable)
2	GND
3	Output
4	Vcc

Unit in mm  
1mm = 0.0394 inches





**Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency	F		1		170	MHz	
Output			CMOS				
Rise Time / Fall Time	Tr / Tf				8.0	nsec	
Start Time					5	msec	
Output Load				15		pF	
Symmetry (Duty ratio)			40		60	%	
<b>Power Supply</b>							
Supply Voltage	V <sub>DD</sub>			3.3		V	(1.8V, 5.0V available)
Supply Current					20	mA	
Voltage Vol (Max.) /Voh (Min.)			0.1 V <sub>DD</sub> /0.9 V <sub>DD</sub>				
<b>Frequency Stability</b>							
Frequency Stability			±20ppm, ±25ppm			ppm	
Aging		@+25°C 1st year			±3	ppm	
Period Jitter					40	pS	
Phase Jitter (12KHz~20MHz)					1	pS	
<b>Environmental Conditions</b>							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-55°C to +125°C					