



# Dynamic Engineers Inc.

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## Features and Benefits

- Surface mount package
- 4 pad 7x5x1.8mm
- RoHS Compliant
- Lead Free construction

## Typical Applications

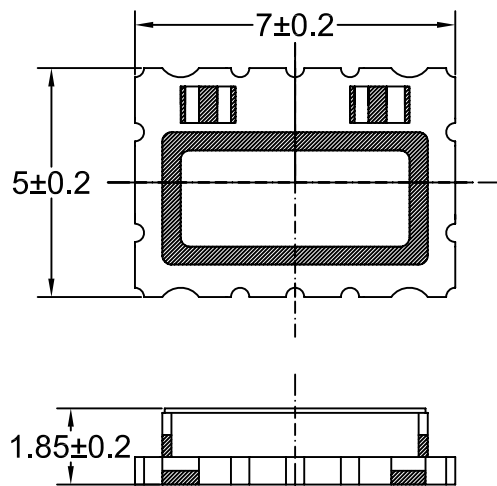
- UHF Synthesizers
- SATCOM System
- Portable Microwave Applications

## Description

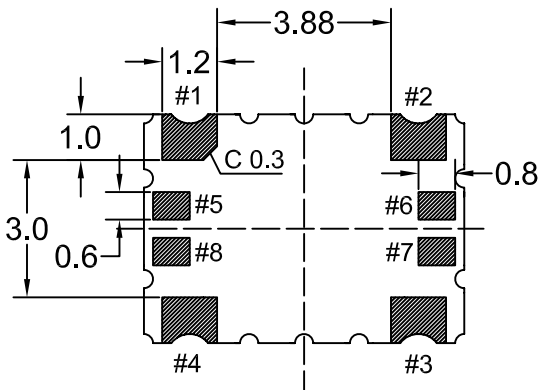
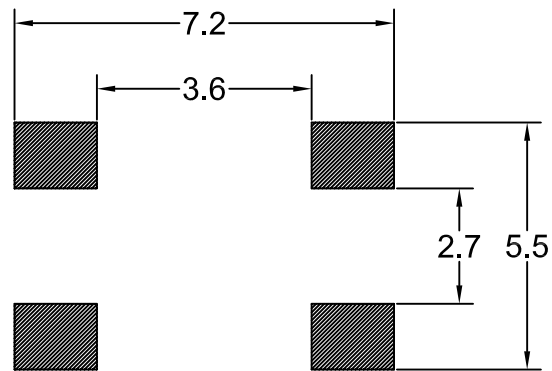
TCXO7500AP-10MHz-A-V offers wide temperature operation from -40°C to +85°C with outstanding frequency stability.

## Mechanical Drawing & Pin Connections

Drawing No: A8%\$\$+\*!&



Solder pattern



### Pin Function

- #1 GND
- #2 GND
- #3 Output
- #4 Supply Voltage

Do not connect #5, #6, #7, #8

Unit in mm  
1mm = 0.0394 inches



## Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F <sub>nom</sub>			10		MHz	
CMOS	Output Level			CMOS			
	Output Load	±5%		15		pF	
	Duty Cycle	at 1/2VDD level	40		60	%	
	Rise and fall times	10% to 90%VDD max			5	nS	
	"0" level(VOL)			10%VDD max			
"1" level(VOH)			90%VDD min				
<b>Power Supply</b>							
Input voltage				+2.5V to +3.3V DC(VDD±5%)		V	
Current Consumption					8.5	mA	
Start-up time					10	mS	
<b>Frequency Stability</b>							
Tolerance		@25°C			±1	ppm	
Versus temp		Referred to +25°C over -40°C to 85°C			±1.0	ppm	
Versus ±5% change in supply voltage					±0.3	ppm	
Versus ±10% change in load		At CL=15pF ±10%			±0.3	ppm	
First Year Aging		@25°C			±1.0	ppm	
<b>Environmental Conditions</b>							
Storage temperature range	-40°C to 85°C						
Power supply voltage	-0.6V to +4.6V						
Operating temperature	-40°C to 85°C						
Reflow soldering condition	+250°C ±10°C for 10 seconds, +170°C ±10°C for 1 to 2 minutes(pre-heating)						