



### Features and Benefits

- Surface mount package
- 4 pad 5x3.2x1.8mm
- Optional voltage control function
- RoHS Compliant
- Lead Free construction

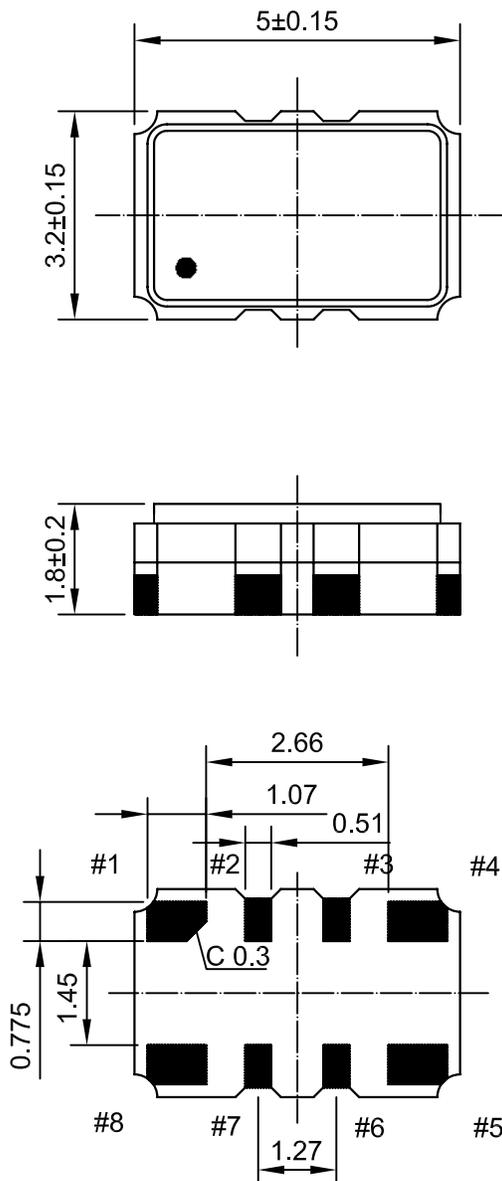
### Typical Applications

- UHF Synthesizers
- SATCOM System
- Portable Microwave Applications



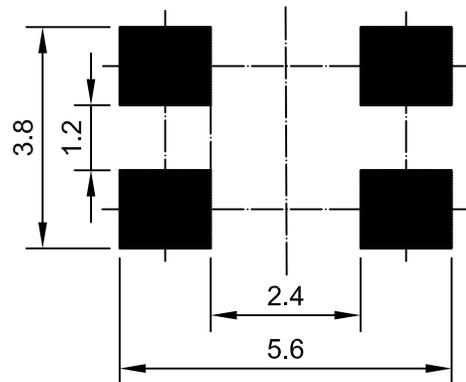
TCXO5300AP\_series offers wide temperature operation from -40°C to +85°C with outstanding frequency stability.

### Mechanical Drawing & Pin Connections



Drawing No: MD150017-6

### Land Pattern



### Pin Function

#1	VC or NC
#4	GND
#5	Output
#8	Vdc

Do not connect: #2, #3, #6 & #7

Unit in mm  
1mm=0.0394 inches



**Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max		
Operational Frequency Range	F <sub>nom</sub>		10		52	MHz	
Standard Frequency			10,16.384,19.2,20,25			MHz	
CMOS	Output Level		CMOS				
	Output Load			15		pF	
	Duty Cycle		40		60	%	
Clipped Sine	Output Level			0.8Vp-p			
	Output Load			10kohm//10pF			
<b>Power Supply</b>							
Voltage	V <sub>cc</sub>		2.7		5.5	V	
Current Consumption					8.5	mA	For CMOS output
					3.5	mA	For Clipped sine
<b>Frequency Control*</b>							
Control voltage range	V <sub>c</sub>			1.5±1.0;1.65±1.0;2.5±1.0		V	
Tuning range			±3			ppm	Tuning Slope Positive
<b>Frequency Stability</b>							
Versus ±5% change in supply voltage					±0.3	ppm	
Versus ±10% change in load		Ref to frequency at nominal load			±0.3	ppm	
First Year Aging					±1.0	ppm	
Versus Reflow		1 reflow			±1.0	ppm	
Phase noise (typ.) @20MHz		1000 Hz			-135	dBc	
<b>Environmental Conditions</b>							
Storage temperature range		-40°C to 85°C					

**Frequency Stability vs. Temperature**

	±0.05PPM	±0.1PPM	±0.2PPM	±0.5PPM	±1.0PPM	±2.0PPM
<b>0°C to +50°C</b>	Available	Available	Available	Available	Available	Available
<b>-10°C to +60°C</b>	Conditional	Available	Available	Available	Available	Available
<b>-20°C to +70°C</b>	Not Available	Conditional	Available	Available	Available	Available
<b>-30°C to +75°C</b>	Not Available	Conditional	Available	Available	Available	Available
<b>-40°C to +85°C</b>	Not Available	Conditional	Available	Available	Available	Available