



**Features and Benefits**

Surface mount package  
 4 pad 5x3.2x1.8mm  
 RoHS Compliant  
 Lead Free construction

**Typical Applications**

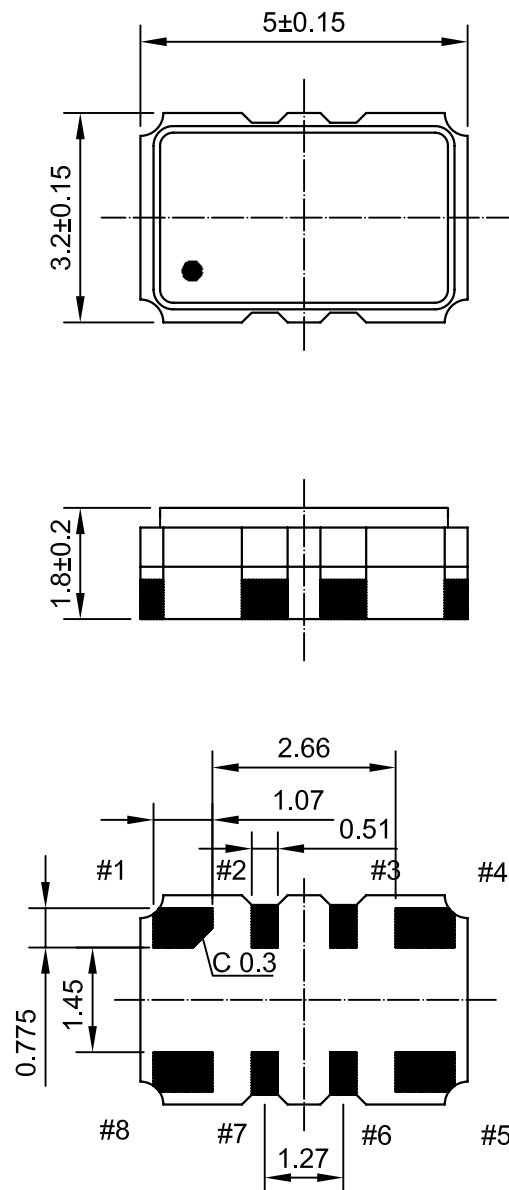
UHF Synthesizers  
 SATCOM System  
 Portable Microwave Applications

**Description**

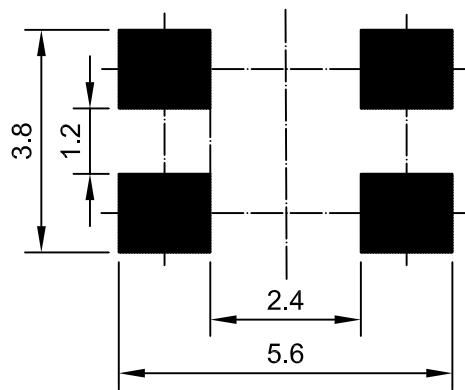
TCXO5300AP-10MHz-B-V offers wide temperature operation from -40°C to +85°C with outstanding frequency stability.

**Mechanical Drawing & Pin Connections**

Drawing No: MD1) \$\$\$+!\*



Land Pattern



Pin Function

#1	GND
#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	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 +3.7V 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)						