

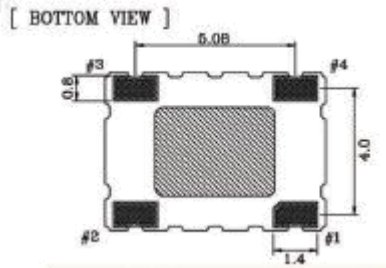
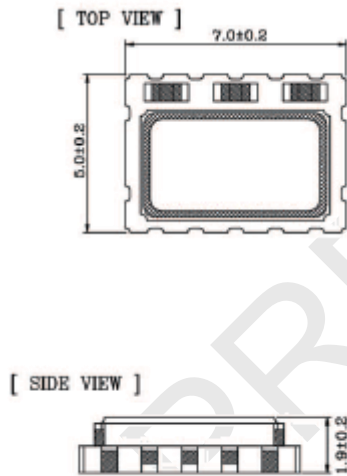
**Features and Benefits**

Better than +/- 100 ppb from -10°C to +70°C  
 With respect to  $(F_{max} + F_{min}) / 2$   
 19.200000 MHz low noise cmos output  
 3.3V supply ; 6.0 mA max.  
 +/- 5 ppm min. pull with 1.5V +/- 1.0V control

**Typical Applications**

Mobile SATCOM  
 Mobile Radio  
 Harsh Environments  
 Femto-cell

**Mechanical Drawing**



PIN	FUNCTION
#1	Vcon VC-TCXO GND TCXO
#2	GND
#3	OUTPUT
#4	VDD

## Specification

TCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency Range	$f_0$			19.200000		MHz	
CMOS		Logic Level High	2.97			V	
		Logic Level Low			0.33	V	
		Output Load Capacitance			15.0	pF	
		Duty Cycle	45	50	55	%	
		Rise and Fall Times			6.0	ns	
		Start Time			2.0	ms	
<b>Power Supply</b>							
Voltage	$V_{CC}$		3.130	3.300	3.470	V	
Current Consumption					6.0	mA	At maximum supply
<b>Frequency versus Voltage</b>							
+/- 5 ppm minimum							
Pad 1: Control Voltage :			0.5	1.5	2.5	V	
<b>Frequency Stability</b>							
Vs. Temperature		-10°C to +70°C			+/- 100	ppb	With respect to ( $F_{max} + F_{min}$ )/2
Vs. at 25°C		Initial Accuracy one hour after exposure to two reflows			+/- 2000	ppb	
Vs. +/- 5% Supply Variation		@ 25°C			+/- 50	ppb	
Vs. +/- 10 % Load Variation		@ 25°C			+/- 50	ppb	
<b>Aging</b>							
		After 30 Days of Operation			+/- 1.00	ppm	First Year Maximum
<b>SSB Phase Noise</b>							
@ 19.2 MHz		100 Hz			-120	dBc/Hz	
		1 KHz			-140		
		10 KHz			-153		
		100 KHz			-155		