

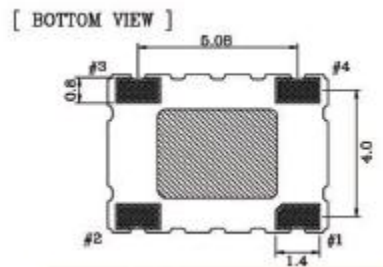
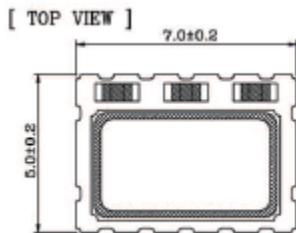
**Features and Benefits**

Better than +/- 370 ppb from -40°C to +85°C  
 50 MHz low noise LVCMOS output  
 3.3V supply ; 3.5 mA typical  
 Less than -132 dBc/Hz @ 1KHz offset  
 Less than -149 dBc/Hz @ 10KHz offset

**Typical Applications**

Mobile SATCOM  
 Mobile Radio  
 Harsh Environments  
 Femto-cell

**Physical Dimensions and Pin Connections**



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	$f_0$			50.000000		MHz	
LVCMOS		Load		15		pF	
		Logic 1 level	0.9Vcc			V	
		Logic 0 level			0.1Vcc	V	
		Duty Cycle	45	50	55	%	
<b>Power Supply</b>							
Voltage	V <sub>CC</sub>		2.970	3.300	3.630	V	
Current Consumption				3.5	6.0	mA	
<b>Frequency versus Voltage</b>							
Pin 1: Voltage Control: 1.5V +/- 1.0V			+/- 5.0			ppm	
Pin 1: Input Impedance			100			K ohm	
<b>Frequency Stability</b>							
Vs. Temperature		-40°C to +85°C			+/-0.370	ppm	
Vs. at 25°C		Initial Accuracy at time of shipment			+/-0.500	ppm	
Vs. Reflow Shift		After 24 hours settling time			+/-1.000	ppm	
<b>Aging</b>							
		After 30 Days of Operation			+/- 1.0	ppm	
<b>SSB Phase Noise</b>							
@ 50MHz		100 Hz		-109		dBc/Hz	
		1 KHz		-132			
		10 KHz		-149			
		100 KHz		-149			