

Features and Benefits

Better than +/- 500 ppb from -40°C to -45°C
 Better than +/- 300 ppb from -40°C to +85°C
 10 MHz low noise clip sine output
 3.3 V supply; 3.0 mA max.
 -141 dBc/Hz @ 1 KHz offset typ.
 -154 dBc/Hz @ 10 KHz offset typ.
 Will meet better than 8 Grms random vibration
 From 10 Hz to 2000 Hz vibration frequency

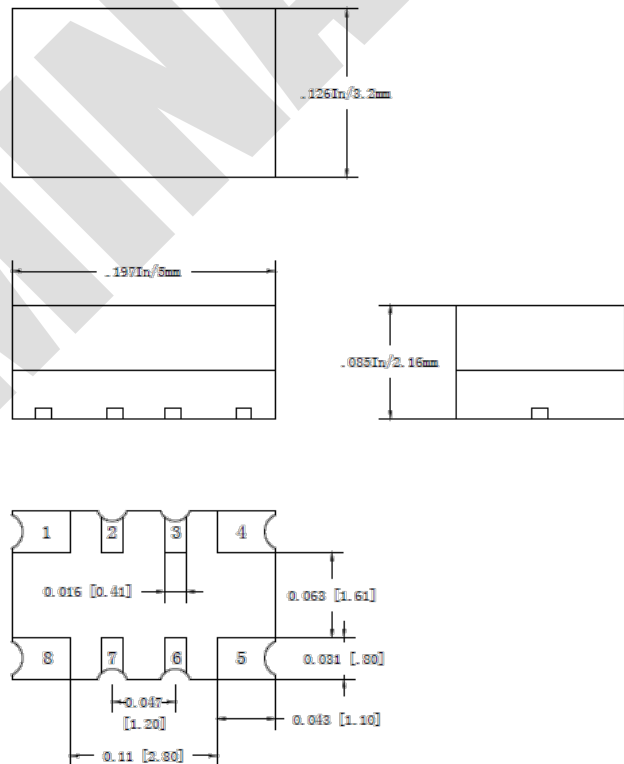
Typical Applications

Mobile SATCOM
 Mobile Radio
 Harsh Environments
 Small-Cell

Mechanical Drawing

Pad Connections

- 1 -EFC
- 2 -N/C, Internal Use Only
- 3 -N/C, Internal Use Only
- 4 -0V, Ground
- 5 -Output
- 6 -Tri-State (enable Hi or float)
- 7 -N/C, Internal Use Only
- 8 -Supply Voltage



Specification

TCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency Range	f_0			10.000000		MHz	
Clip sine		Load		10//10K		pF//ohm	
		Output Level	0.8Vp-p			Vp-p	
Power Supply							
Voltage	V_{CC}		2.970	3.300	3.630	V	
Current Consumption					3.0	mA	
Frequency versus Voltage							
Pin 1: NO CONNECTION (N/C)							
Pin 1: NO Voltage Control Function ; CLOCK TCXO							
Frequency Stability							
Vs. Temperature		-40°C to +85°C			+/-0.300	ppm	
Vs. Temperature		-40°C to -45°C			+/-0.500	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	
G-sensitivity					2.0	ppb / g	
Vibration					8	Grms	10 Hz to 2000 Hz
Aging							
Yearly		After 30 Days of Operation			+/- 1.0	ppm	
		Projected Curvefit Yearly Aging					
SSB Phase Noise							
@ 10MHz		100 Hz		-117		dBc/Hz	
		1 KHz		-141			
		10 KHz		-154			
		100 KHz		-155			