

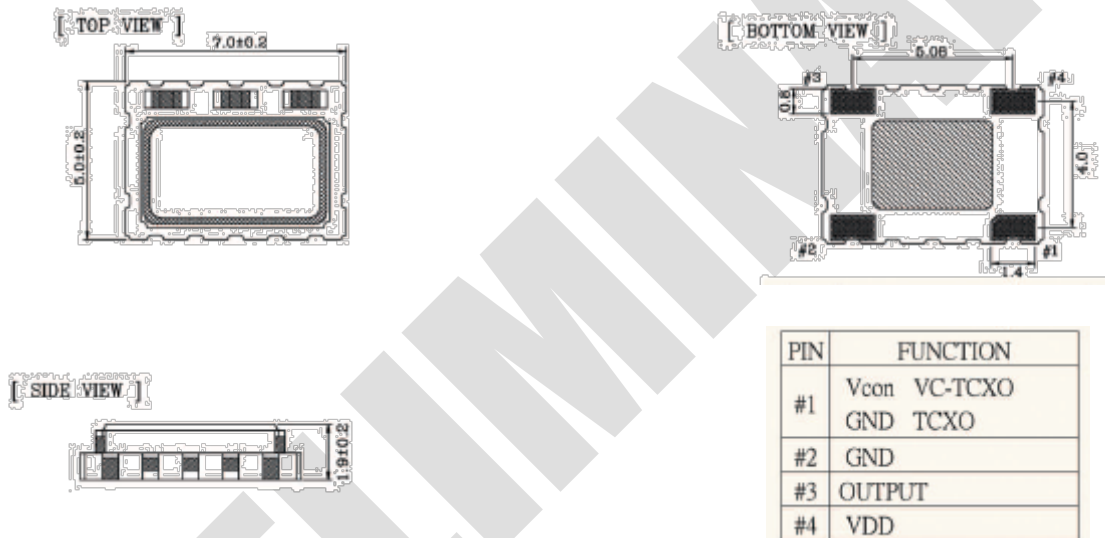
Features and Benefits

Better than +/- 250 ppb from -40°C to +85°C
 With respect to $(F_{max} + F_{min}) / 2$
 30.720000 MHz low noise clipped sine output
 3.3V supply ; 3.5 mA max.
 +/- 5 ppm min. pull with 1.5V +/- 1.0V control

Typical Applications

Mobile SATCOM
 Mobile Radio
 Harsh Environments
 Femto-cell

Mechanical Drawing



Specification

TCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency Range	f_0			30.720000		MHz	
Clipped sine		Load Capacitance		10		pF	
		Load Resistance		10		Kohm	
		Output Level	0.8			Vpk-pk	
		Start-up Time			2.0	milli-sec	
Power Supply							
Voltage	V_{CC}		3.130	3.300	3.470	V	
Current Consumption					3.5	mA	At maximum supply
Frequency versus Voltage							
+/- 5 ppm minimum							
Pin 1: Control Voltage :			0.5	1.5	2.5	V	
Frequency Stability							
Vs. Temperature		-40°C to +85°C			+/- 250	ppb	With respect to (Fmax + Fmin)/2
Vs. at 25°C		Initial Accuracy at time of shipment			+/- 500	ppb	
Vs. Reflow Shift		After 24 hours settling time			+/- 500	ppb	
Aging							
		After 30 Days of Operation			+/- 1.00	ppm	Over 20 years
SSB Phase Noise							
@ 30.72 MHz		100 Hz		-115		dBc/Hz	
		1 KHz		-139			
		10 KHz		-153			
		100 KHz		-158			