

Features and Benefits

Better than +/- 250 ppb from -40°C to +85°C
 With respect to +25°C ref. frequency

Less than +/- 1 ppm aging over 20 years

25.600 MHz low noise clipped sine output

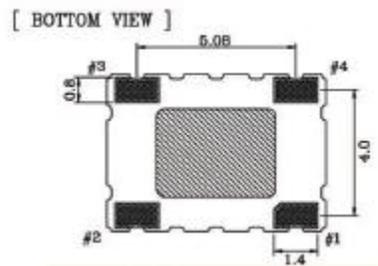
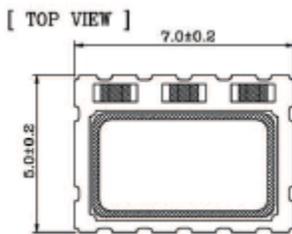
5.0V supply ; 3.5 mA max.
 +/- 5 ppm min. pull with 2.5V +/- 2.0V control

Typical Applications

- Mobile SATCOM
- Mobile Radio
- Harsh Environments
- Femto-cell

Mechanical Drawing and PIN Connections

Unit: mm



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

Specifications

TCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency Range	f_0			25.600000		MHz	
Clipped sine		Load Capacitance		10		pF	
		Load Resistance		10		Kohm	
		Duty Cycle	45		55	%	
		Output Level	0.8			Vpk-pk	
		Start-up Time			2.0	milli-sec	
Power Supply							
Voltage	V_{CC}		4.750	5.000	5.250	V	
Current Consumption					3.5	mA	
Frequency versus Voltage							
+/- 5 ppm minimum							
Pin 1: Control Voltage :			0.5	2.5	4.5	V	
Frequency Stability							
Vs. Temperature	-40°C to +85°C				+/- 250	ppb	With respect to 25°C Ref Frequency
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							
@ 25.600 MHz	100 Hz				-112	dBc/Hz	
	1 KHz				-135		
	10 KHz				-148		
	100 KHz				-152		