

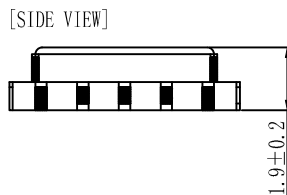
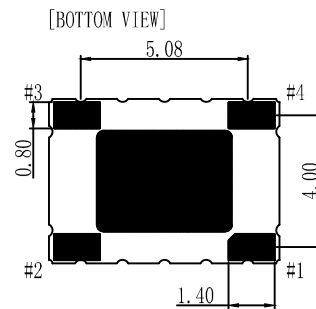
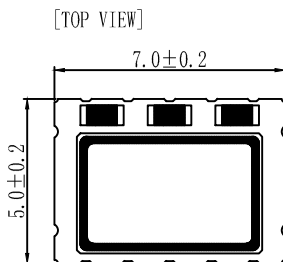
## Features and Benefits

- Better than +/- 200 ppb from -40°C to +85°C  
 With respect to  $(F_{max} + F_{min}) / 2$
- 12.688750 MHz low noise clipped sine output
- 3.3V supply ; 3.5 mA max.
- CLOCK Reference; No Voltage Control Function

## Typical Applications

- Rescue Beacon ( Marine Applications )
- Mobile Radio / SATCOM
- Harsh Environments
- Femto-cell;

## Mechanical Drawing and PIN Connection



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

MD#:MD13023

## Specifications

TCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency Range	$f_0$			12.688750		MHz	
Clipped sine		Load Capacitance		10		pF	
		Load Resistance		10		Kohm	
		Output Level	0.8			Vpk-pk	
		Start-up Time			2.0	milli-sec	
<b>Power Supply</b>							
Voltage	$V_{CC}$		3.130	3.300	3.470	V	
Current Consumption					3.5	mA	At maximum supply
<b>Frequency versus Voltage</b>							
Pin 1: No Connection Internally : CLOCK TCXO							
<b>Frequency Stability</b>							
Vs. Temperature	-40°C to +85°C				+/- 200	ppb	With respect to ( Fmax + Fmin )/2
Vs. at 25°C	Initial Accuracy at time of shipment				+/- 1000	ppb	
Vs. Reflow Shift	After 24 hours settling time				+/- 1000	ppb	
<b>Aging</b>							
	After 30 Days of Operation						
					+/- 1.00	ppm	Over 20 years
<b>SSB Phase Noise</b>							
@ 30.72 MHz	100 Hz				-120	dBc/Hz	
	1 KHz				-140		
	10 KHz				-150		
	100 KHz				-152		