T1250 Series TCXO

10 MHz to 50 MHz

(Rev A)

GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

Dual Compensated

SPECIFICATIONS

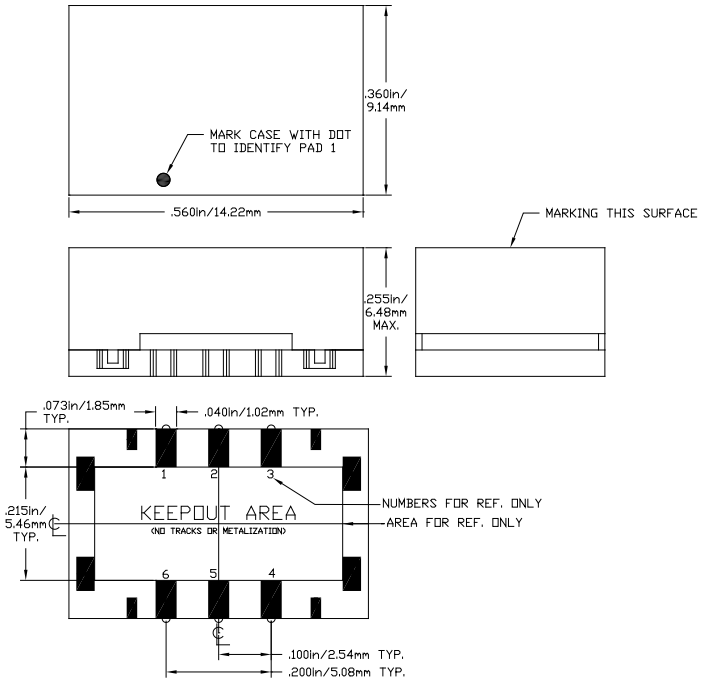
Frequency	10.0 MHz to 50.0 MHz		
Output	"C" option - CMOS Squarewave; "S" option - Clipped Sinewave		
Load	CMOS - 15pF; Clipped Sinewave – 10pf / 10kohms		
Symmetry	50% ± 10% (CMOS version)		
Temp Stability	**Temp Range**	**Tolerance**	**Option**
	-40 to +85°C	$\pm 3x10^{-8}$	T38
	-40 to +85°C	$\pm 5x10^{-8}$	T58
	-40 to +85°C	$\pm 1x10^{-7}$	T17
	(fmax-fmin)/2xfmin; EFC at center of range. Trim effect ≤ ±0.1ppM over 0 to Vs EFC and temp. Hysteresis not included in stability spec.		
Freq vs. Supply	$\pm 1x10^{-7}$ for a 5% change		
Aging	$\pm 5x10^{-7}$ per year; <3ppM for 15 years		
Supply V	+5.0 or +3.3 VDC ± 5%		
Input Current	25mA max		
Phase Noise	**Offset**	**dBc/Hz**	
(10MHz typ)	10 Hz	-90	
	100 Hz	-120	
	1 kHz	-140	
	10 kHz	-150	
	100 kHz	-155	
Accel Sensitivity	$\leq 2.5x10^{-9}$/g (SD option); or $\leq 7x10^{-10}$/g (LG option)		
Frequency Adjust	±7ppM typ; via 0 to Vsupply EFC; positive slope		

Environmental

Storage Temp: -55 to +95°C
Random Vibration: MIL-STD-202, Meth 214, Cond I-J
Sine Vibration: MIL-STD-202, Meth 204, Cond D
Shock: MIL-STD-202, Meth 213, Cond F

Ordering Example:

T1250-T58-C-3.3-LG-10MHz
(Model-Stability-Output-InpV-GSense-Freq)



Pad Connections

1 - EFC
2 - N/C
3 - 0 V & Case Gnd
4 - Output
5 - N/C
6 - VSupply