



T1300 Series TCXO

10 to 50MHz

(Rev G)

GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

Ultra-Low Acceleration Sensitivity
Low Phase Noise

SPECIFICATIONS

Frequency	10.0 to 50MHz	
Output	CMOS Squarewave	
Symmetry	50% ± 10%	
Load	15pF/10kohm	
Temp Stability	Temp Range	Tolerance
	-40 to +85°C	±2x10 ⁻⁶
Freq vs. Supply	±1x10 ⁻⁷ for a 5% change	
Freq vs. Load	±1x10 ⁻⁷ for a 10% change	
Short Term Aging	8x10 ⁻¹¹ typ for 1 sec tau (10MHz)	
Input Voltage	+5.0VDC or +3.3VDC ± 5%	
Input Current	20mA max	
Warm Up Time	to within ±1ppM in 10msec	
Phase Noise	10 Hz	-100 dBc/Hz
(typical, 10MHz, +5V)	100 Hz	-130 dBc/Hz
	1 kHz	-155 dBc/Hz
	10 kHz	-162 dBc/Hz
	100 kHz	-162 dBc/Hz
G-Sensitivity	≤7x10 ⁻¹¹ /g in the worst axis	
Frequency Adjust	±6.0 ppm typ, positive slope 0 to Vcc EFC, 50k ohm input Z	

Ordering Example:

T1300-5.0-10.0MHz
(Model-Inp V-Freq)

Pin Connections

- 1 - EFC
 - 7 - 0V/Gnd
 - 8 - Output
 - 12 - EFC Filter Enable*
 - 14 - Supply V
- Remaining pins are not connected.

- EFC input is through a low pass filter for phase noise reduction. The filter may be disabled for faster response by grounding Pin 12. The filter is enabled if the pin is floating or at logic "1" (+5V).

