



# T1170/1171 Series TCXO

10MHz – 300MHz

(Rev C)

GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

High Frequency TCXO  
Tight Stability

## SPECIFICATIONS

<b>Frequency</b>	10.0 MHz to 300.0 MHz		
<b>Output</b>	T1170 - Squarewave, AC MOS (available at 10 to 125 MHz only) T1171 - Sinewave, 0 dBm min into 50 ohms		
<b>Harmonics</b>	-20 dBc (Sinewave version)		
<b>Symmetry</b>	50% ± 10% (Squarewave version)		
<b>Temp Stability</b>	<b>Temp Range</b>	<b>Tolerance</b>	<b>Option</b>
	-10 to +60°C	±3x10 <sup>-7</sup>	G37
	-30 to +70°C	±4x10 <sup>-7</sup>	N47
	-40 to +85°C	±5x10 <sup>-7</sup>	T57
	-40 to +85°C	±1x10 <sup>-6</sup>	T16
<b>Freq vs. Supply</b>	±1x10 <sup>-7</sup> /% change		
<b>Aging</b>	±2x10 <sup>-9</sup> per day after 30 days (10 MHz typ)		
<b>Supply V</b>	available in +5 or +3.3 VDC		
<b>Phase Noise</b>	10 Hz	-95 dBc/Hz	
(typ @ 10MHz)	100 Hz	-125 dBc/Hz	
	1 kHz	-140 dBc/Hz	
	10 kHz	-150 dBc/Hz	
	100 kHz	-155 dBc/Hz	
<b>Frequency Adjust</b>	±5.0 ppm typ, positive slope 0 to V <sub>supply</sub> EFC		

Ordering Example:

T1170-T57-3.3-20MHz  
(Model-Stability-Input V-Freq)

### Pin Connections

- 1 - Supply V
- 4 - Output
- 7 - 0V/Case Gnd
- 8 - EFC
- 14 - N/C (Pin used by Factory)

