



# T121 series TCXO

50 to 100 MHz

Rev. B

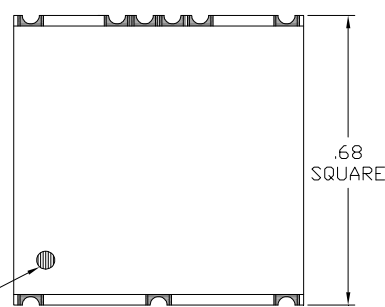
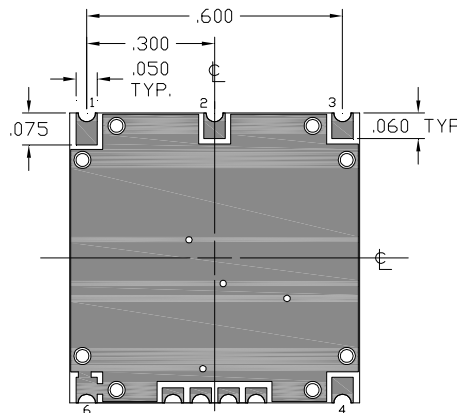
GREENRAY INDUSTRIES, INC.

## PRECISION QUARTZ TECHNOLOGY

### SPECIFICATIONS

Low G-Sensitivity/Rugged TCXO  
High Frequency/Tight Temp Stability

<b>Frequency</b>	50.0 to 100.0 MHz		
<b>Output</b>	Sinewave		
<b>Output Level</b>	+3dBm $\pm$ 2dBm into a 50 ohm load		
<b>Harmonic &amp; Subs</b>	-40dBc max		
<b>Temp Stability</b>	<b>Temp Range</b>	<b>Tolerance</b>	<b>Option</b>
	-40°C to +85°C	$\pm$ 0.5 ppM	T57
	-40°C to +85°C	$\pm$ 1.0 ppM	T16
	-55°C to +95°C	$\pm$ 3.0 ppM	V36
<b>Voltage Stability</b>	$\pm$ 0.1ppM for a $\pm$ 5% change		
<b>Load Stability</b>	$\pm$ 0.1ppM for a $\pm$ 5% change		
<b>Aging</b>	<1 ppM/yr		
<b>Total Stability</b>	$\pm$ 5ppM max from nominal over 10 years (includes temp, voltage, load, & aging)		
<b>Phase Noise</b>	<b>Offset</b>	<b>static dBc/Hz</b>	
(typ at 100MHz)	10Hz	-75	
	100Hz	-102	
	1kHz	-125	
	10kHz	-140	
	100kHz	-145	
<b>G-Sensitivity</b>	$\leq 7 \times 10^{-10}/g$		
<b>Freq Adjust</b>	$\pm 7$ ppM typ, 0 to +5.0V EFC		
<b>Supply Voltage</b>	+5.0 VDC		
<b>Supply Current</b>	< 25mA		
<b>Environmentals</b>			
Vibration – per MIL-STD-202F, Meth 214,	Cond II H, 3 min/axis		
Shock – per MIL-STD-202F, Meth 213,	90g's pk, 1/2 sine, 5ms		
Storage Temp	-55 to +105°C		



Ordering Example:

T121-T57-100.0MHz  
(Model-Stability-Freq)

### Pad Connections

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