



# T52 Series TCXO

10 MHz to 52 MHz  
(Rev. C)

GREENRAY INDUSTRIES, INC.

## PRECISION QUARTZ TECHNOLOGY

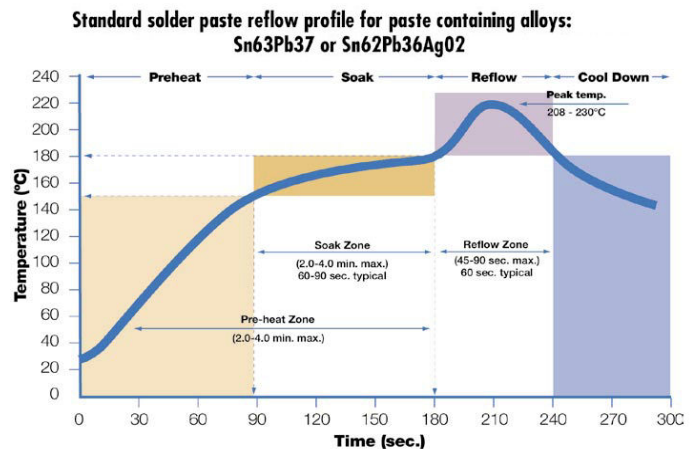
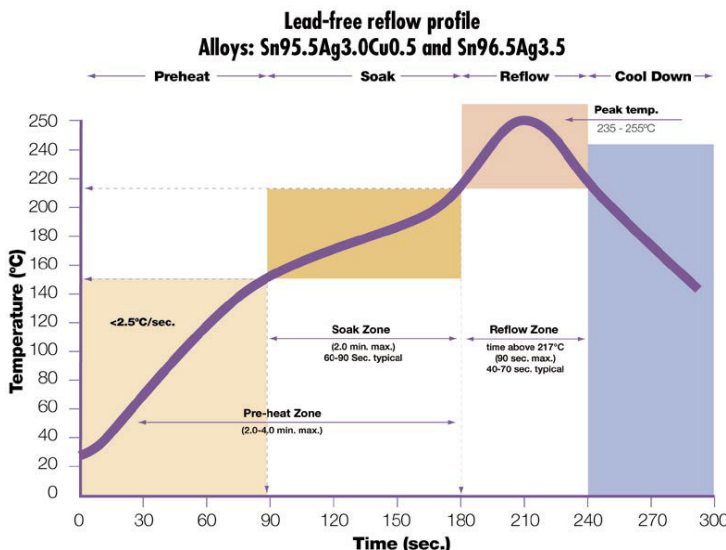
### SPECIFICATIONS

Very Rugged TCXO  
Tight Temp Stability

<b>Frequency</b>	10.0 MHz to 52.0 MHz		
<b>Output</b>	CMOS (C option) or Clipped Sinewave (S option)		
<b>Symmetry</b>	50% ± 10% (CMOS)		
<b>Output Level</b>	SINE - +0.8V p-p min into 10pF/10k ohm load; CMOS - 3.3V - +0.2V max to +2.8V min; 5.0V - +0.2V max to +4.2V min; 15pF load		
<b>Temp Stability</b>	<b>Temp Range</b>	<b>Tolerance</b>	<b>Option</b>
(other stabilities available)	-20°C to +70°C	±0.1 ppM	N17
	-40°C to +85°C	±0.2 ppM	T27
	-40°C to +85°C	±0.5 ppM	T57
	-40°C to +85°C	±1.0 ppM	T16
<b>Aging</b>	<1.0 ppM/yr typ		
<b>Freq vs Reflow</b>	<1ppM after 24hr recovery		
<b>Freq Adjust</b>	±8 ppM typ via 0 to V <sub>cc</sub> control V, positive slope; or available with no adjust		
<b>Supply Voltage</b>	+3.0 VDC ± 5%, +3.3VDC, or +5.0 VDC		
<b>Supply Current</b>	< 6mA for HCMOS; < 3mA for SINE		
<b>G-Sensitivity</b>	≤2x10 <sup>-9</sup> /g typ (Standard "SD"); ≤7x10 <sup>-10</sup> /g (Low G-Sense "LG")		
<b>Environmentals</b>			
Vibration –	per MIL-STD-202G, Meth 214, Cond I-F		
Shock -	per MIL-STD-202G, Meth 213, Cond D		

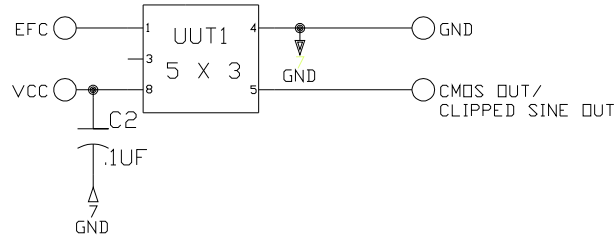
### Ordering Example:

T52-N17-C-3.3-LG-20.0MHz  
(Model-Stability-Output-SupplyV-GSense-Freq)

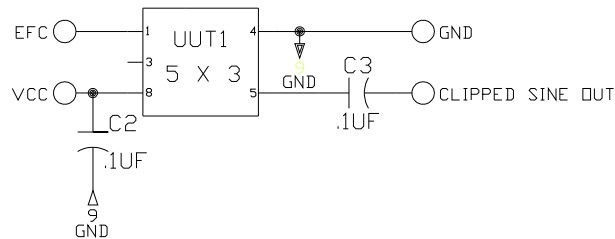


### Recommended Output Configuration

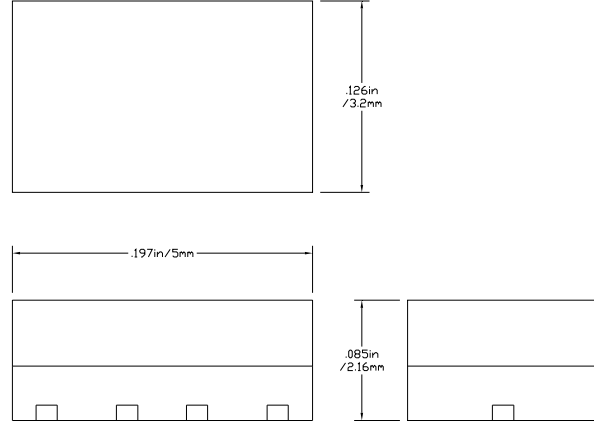
CMOS/  
CLIPPED SINE <DC COUPLED>



CLIPPED SINE <AC COUPLED>



### Outline Drawing



#### Pad Connections

- 1 - EFC
- 2 - N/C, Internal Use Only
- 3 - N/C, Internal Use Only
- 4 - 0V, Ground
- 5 - Output
- 6 - Tri-State (enable Hi or float)
- 7 - N/C, Internal Use Only
- 8 - Supply Voltage

#### Pad Layout

