



# T90/91 Series TCXO

10MHz -50MHz

Rev. K

GREENRAY INDUSTRIES, INC.

## PRECISION QUARTZ TECHNOLOGY

Very Rugged TCXO  
Miniature SMT  
Tight Temp Stability

### SPECIFICATIONS

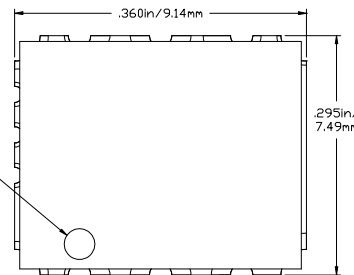
<b>Frequency</b>	10.0 MHz to 50.0 MHz		
<b>Output</b>	CMOS Squarewave		
<b>Symmetry</b>	50% ± 10%		
<b>Output Level</b>	T90 - +0.2V max to +4.1V min; T91 - +0.2V max to +2.4V min		
<b>Temp Stability</b>	<b>Temp Range</b>	<b>Tolerance</b>	<b>Option</b>
(other stabilities available)	-20°C to +70°C	±0.3 ppM	N37
	-20°C to +70°C	±0.5 ppM	N57
	-40°C to +85°C	±1.0 ppM	T16
	-40°C to +85°C	±0.5 ppM	T57
	-55°C to +95°C	±2.0 ppM	V26
<b>Aging</b>	<1 ppM/yr		
<b>Freq Adjust</b>	±5 ppM typ via 0 to +5V or 0 to +3.3V control V, positive slope		
<b>Supply Voltage</b>	+5.0 VDC ± 5% or +3.3 VDC		
<b>Supply Current</b>	< 20mA for CMOS; < 6mA for Clipped sine		
<b>Environmentals</b>			

Vibration – per MIL-STD-202F, Meth 204, Cond A  
Shock – per MIL-STD-202F, Meth 213, Cond C

### Ordering Information:

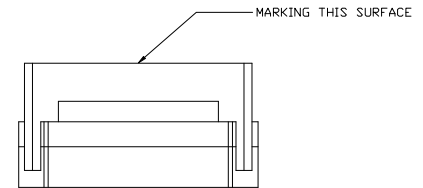
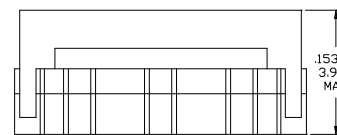
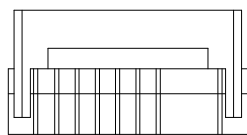
Model	Input Voltage	Output
T90	+5.0V	HCMOS
T91	+3.3V	HCMOS

PIN 1 IDENTIFIER ON LABEL



### Ordering Example:

T90-N57-20.0MHz  
(model-stability-freq)



### Pad Connections

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

