



# T70 Series TCXO

10 MHz to 50 MHz  
(Rev. B)

GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

Very Rugged TCXO  
Tight Temp Stability

## SPECIFICATIONS

<b>Frequency</b>	10.0 MHz to 50.0 MHz		
<b>Output</b>	HCMOS or Clipped Sinewave		
<b>Symmetry</b>	50% ± 10% (HCMOS)		
<b>Output Level</b>	SINE - +0.8V p-p typ into 10pF/100k ohm load; HCMOS – T70 - +0.2V max to +2.8V min; T71 - +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)	-10°C to +60°C	±0.1 ppM	G17
	-20°C to +70°C	±0.1 ppM	N17
	-40°C to +85°C	±0.2 ppM	T27
	-40°C to +85°C	±0.3 ppM	T37
	-55°C to +95°C	±1.0 ppM	V16
<b>Aging</b>	<0.5 ppM/yr (10 MHz typ)		
<b>Freq Adjust</b>	±7 ppM typ via 0 to V <sub>cc</sub> control V, positive slope		
<b>G-Sensitivity</b>	Standard (SD) ≤2.5x10 <sup>-9</sup> /g typ; Low G-sensitivity option (LG) ≤7x10 <sup>-10</sup> /g		
<b>Supply Voltage</b>	+3.3 VDC ± 5% or +5.0 VDC		
<b>Supply Current</b>	< 6mA for HCMOS; < 3mA for SINE		

### Environmentals

Vibration – per MIL-STD-202G, Meth 214, Cond I-F

Shock - per MIL-STD-202G, Meth 213, Cond F

(Shock level available up to 50000g!)

### Ordering Information:

Model	Input V	Output
T70	+3.3V	HCMOS
T71	+5.0V	HCMOS
T72	+3.3V	CLIPPED SINE
T73	+5.0V	CLIPPED SINE

### Ordering Example:

T72-T27-LG-20.0MHz  
(Model-Stability-GSense-Freq)

### Pad Connections

- 1 - EFC
- 2 - Internal Use Only
- 3 - 0 V & Case Gnd
- 4 - Output
- 5 - Tri-State (enable Hi or float)
- 6 - VSupply
- A - Internal Use Only
- B - Internal Use Only

