



T70 Series TCXO

10 MHz to 50 MHz

(Rev. B)

GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

SPECIFICATIONS

Very Rugged TCXO
Tight Temp Stability

Frequency	10.0 MHz to 50.0 MHz		
Output	HCMOS or Clipped Sinewave		
Symmetry	50% ± 10% (HCMOS)		
Output Level	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)		
Temp Stability	Temp Range	Tolerance	Option
(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
Aging	<0.5 ppM/yr (10 MHz typ)		
Freq Adjust	±7 ppM typ via 0 to V _{cc} control V, positive slope		
G-Sensitivity	Standard (SD) ≤2.5x10 ⁻⁹ /g typ; Low G-sensitivity option (LG) ≤7x10 ⁻¹⁰ /g		
Supply Voltage	+3.3 VDC ± 5% or +5.0 VDC		
Supply Current	< 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:

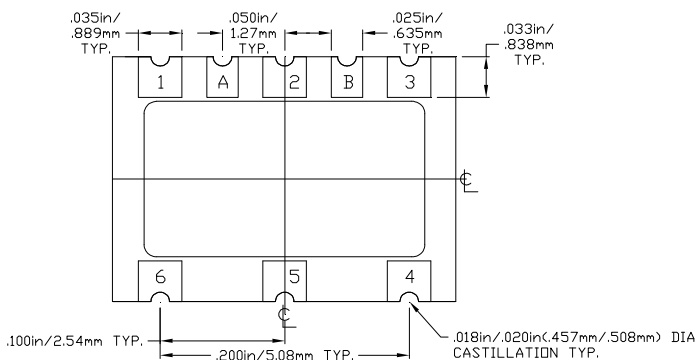
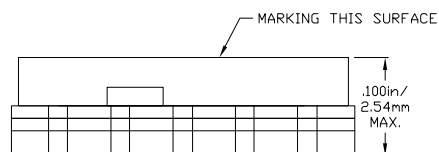
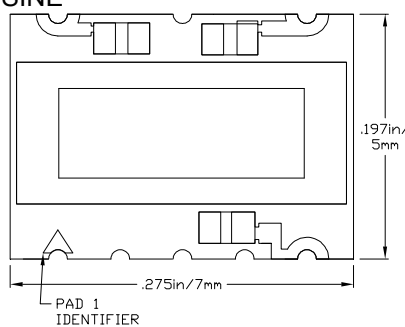
Model	Input V	Output
T70	+3.3V	HCMOS
T71	+5.0V	HCMOS
T72	+3.3V	CLIPPED SINE
T73	+5.0V	CLIPPED SINE

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



To inquire about available custom parameters, please contact us at sales@greenrayindustries.com.

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