EUROQUARTZ — GREENRAY

T70 Series TCXO

Very rugged TCXO — 10.0MHz to 50.0MHz

- **TCXO constructed for Very rugged applications**
- **Miniature SMD format package**
- **Tight tolerances over temperature from 0.1ppm**
- **Wide frequency range, 10MHz to 50MHz**
- **Output CLIPPED SINEWAVE**

RoHS

DESCRIPTION

T70 series TCXOs are packaged in a miniature SMD format. The parts have a rugged construction and are able to withstand up to 50,000g. The part is available over a wide frequency range with close tolerances over temperature. Designed and manufactured by Greenray Industries Inc.

GENERAL SPECIFICATION

Frequency Range:		10.0MHz to 50.0MHz
Output:		HCMOS or Clipped Sinewave
Symmetry:		50%±10% (HCMOS)
Output Level		
	SINE:	0.8V p-p into 10pF/100kΩ load
	HCMOS:	T70 - +0.2V max. to +2.8V min; T71 - +0.2V max. to +4.2V min *(15pf load)*
Temperature Stability:		*See table*
Ageing:		<0.5ppm/yr at 10MHz (typical)
Frequency adjust:		±7ppm typical via 0 to Vcc control voltage, positive slope.
G-Sensitivity		
Standard (SD):		≤2.5x10^{-9}/g typical
Low G-Sensitivity version:		(LG) ≤7x10^{-10}/g typical
Supply Voltage:		+3.3VDC ±5% or +5.0VDC ±5%
Supply Current:		<3mA for SINE, <6mA for HCMOS

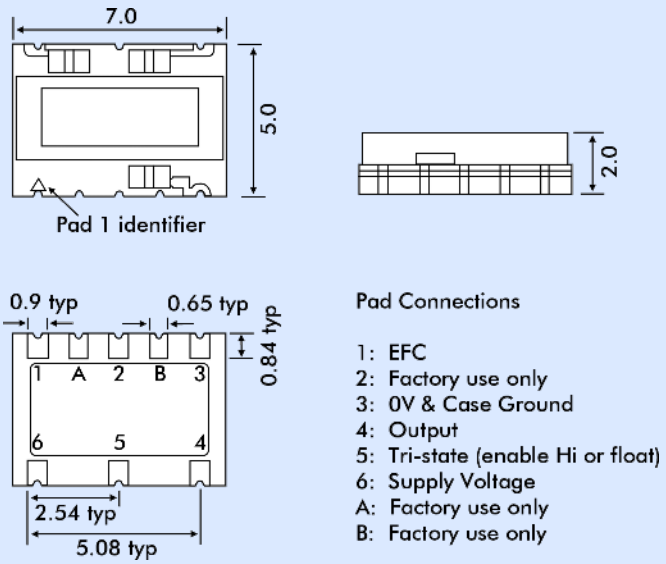
ENVIRONMENTAL

Vibration: per MIL-STD-202G, Meth. 214, Cond. I-F
Shock: per MIL-STD-202G, Meth. 213, Cond. F
(Shock levels to 50,000g are available)

FREQUENCY STABILITY OVER TEMPERATURE

Temperature Stability (°C)		Tolerance	Option
(Other temperature stabilities are available)	-10 ~ +60	±0.1ppm	G17
	-20 ~ +70	±0.1ppm	N17
	-40 ~ +85	±0.2ppm	T27
	-40 ~ +85	±0.3ppm	T37
	-55 ~ +95	±1.0ppm	V16

T72 - OUTLINES AND DIMENSIONS

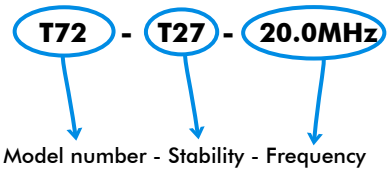


SPECIFYING INFORMATION

Model No:	Input Voltage	Output Type
T70	+3.3V	HCMOS
T71	+5.0V	HCMOS
T72	+3.3V	Clipped Sine Wave
T73	+5.0V	Clipped Sine Wave

T70 SERIES - PART NUMBERING PROCEDURE

Example: **T72-T27-20.0MHz**



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