T52 TCXO

Very Rugged TCXO, Highly Stable — 10.0MHz to 50.0MHz

- **Rugged construction for severe environments**
- **Excellent Temperature Stability ±0.1ppm over -20 to +70°C**
- **HCMOS output (clipped sinewave option)**
- **SMD package**

DESCRIPTION

T52 series TCXOs are designed for rugged, severe environmental applications. The part provides tight stability from 0.1ppm over -20° to +70°C.

GENERAL SPECIFICATION

Frequency Range:	10.0MHz to 52.0MHz
Output	
HCMOS:	3.3V, +0.2V max to +2.8V min. 5.0V, +0.2V max to +4.2V min Load = 15pF
Clipped Sinewave:	+0.8V p-p min. into 10pF//10kΩ
Symmetry:	50%±10% (HCMOS)
Temperature Stability:	*see table*
Supply Voltage:	+3.0VDC±5%, +3.3VDC or 5.0VDC
Supply Current:	
HCMOS:	<6mA
Clipped Sinewave:	<3mA
G Sensitivity:	≤2x10^{-9}/g typ. (Standard 'SD') ≤7x10^{-10}/g (Low G-Sense 'LG')
Ageing:	<1ppm/year typical
Frequency vs. Reflow:	<1ppm after 24 hour recovery
Frequency Adjust:	±8ppm typical via 0 to V_{CC} control V, positive slope; or available no adjust.
Environmentals	
Vibration:	MIL-STD-202G, Meth 214, Cond I-F
Shock:	MIL-STD-202G, Meth 213, Cond D

Designed and manufactured by Greenray Industries Inc.

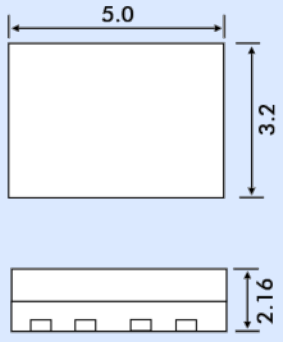
STABILITY OVER TEMPERATURE

Temp. Range	Stability	Option Code
-20°~+70°C	±0.1ppm	N17
-40°~+85°C	±0.2ppm	T27
-40°~+85°C	±0.5ppm	T57
-40°~+85°C	±1.0ppm	T16

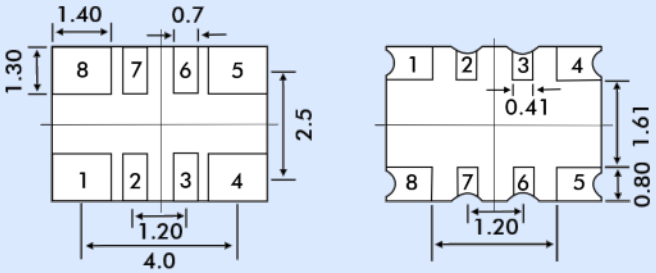
T52 - OUTLINES AND DIMENSIONS

Pad Connections

1: EFC
2: NC - Internal use only
3: NC - Internal use only
4: Ov, Ground
5: Output
6: Tri-state (enable High or float)
7: NC - Internal use only
8: Supply Voltage



Pad Connections



PART NUMBERING PROCEDURE

Example:

T52-N17-C-3.3-LG-20.0MHz

(Model number - Stability - Output - Supply V - G Sense - Frequency)

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