

Very Rugged construction TCXO
10.0MHz to 100.0MHz

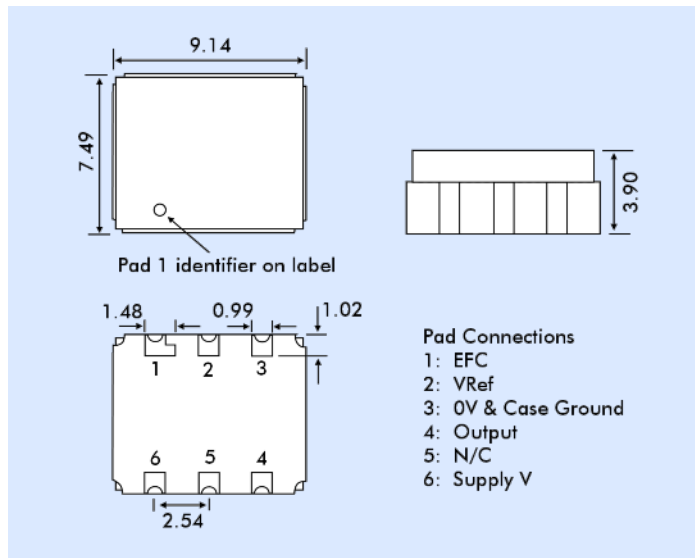
- **Very rugged construction TCXO**
- **Miniature SMD format**
- **Close tolerance over temperature from ± 0.3 ppm**
- **Wide frequency range, 10MHz to 100MHz**
- **HCMOS output**


T90 SERIES - OUTLINES AND DIMENSIONS
DESCRIPTION

T90 and T91 series TCXOs are packaged in a miniature SMD format. The rugged construction enables the ability to withstand 100,000g. The series offers a wide frequency range and close tolerances over temperature. Designed and manufactured by Greenray Industries Inc.

GENERAL SPECIFICATION

Frequency Range:	10.0MHz to 100.0MHz
Output:	HCMOS: 10MHz to 50MHz Sine Wave: 20MHz to 100MHz
Symmetry:	50% \pm 10%
Output Level	
Sine wave:	0.8V p-p typ. into 10pF/100k Ω load
T90:	+0.2V max. to +3.9V min.
T91:	+0.2V max. to +2.2V min.
Temperature Stability:	See table
Ageing:	< 1ppm/yr (10MHz typical)
Frequency adjust:	\pm 5ppm typical via 0 to +5V or 0 to +3.3V control voltage Positive slope
Supply Voltage:	+5.0VDC \pm 5% or +3.3VDC \pm 5%
Supply Current:	< 20mA HCMOS < 6mA Sine Wave


SPECIFYING INFORMATION

Model No:	Input Voltage	Output Type
T90	+5.0V	HCMOS
T91	+3.3V	HCMOS
T94	+5.0V	SINEWAVE
T95	+3.3V	SINEWAVE

ENVIRONMENTAL

Vibration: per MIL-STD-202F, Meth. 204, Cond. A
Shock: per MIL-STD-202F, Meth. 213, Cond. C
(Shock levels to 100,000g are available)

FREQUENCY STABILITY OVER TEMPERATURE

Temperature Stability (°C)	Tolerance	Model No.
-20 ~ +70	± 0.3 ppm	N37
-20 ~ +70	± 0.5 ppm	N57
-40 ~ +85	± 0.5 ppm	T57
-40 ~ +85	± 1.0 ppm	T16
-55 ~ +95	± 2.0 ppm	V26

T90 - PART NUMBERING PROCEDURE

Example:

T90-N37-20.0MHz

(Model number - stability - frequency)

T90 - CUSTOMISED PARAMETERS

There are a wide variety of custom options available for the T90 TCXO. Contact Euroquartz technical sales with your requirements:

info@euroquartz.co.uk