EUROQUARTZ

T90 series TCXO

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**

RoHS

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.

GENERAL SPECIFICATION

Frequency Range:		10.0MHz to 100.0MHz
Output:		HCMOS: 10MHz to 50MHz Sine Wave: 20MHz to 100MHz
Symmetry:		50%±10%
Output Level		
	Sine wave:	0.8V p-p typ. into 10pF/100kΩ 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:		±5ppm typical via 0 to +5V or 0 to +3.3V control voltage Positive slope
Supply Voltage:		+5.0VDC ±5% or +3.3VDC ±5%
Supply Current:		<20mA HCMOS <6mA Sine Wave

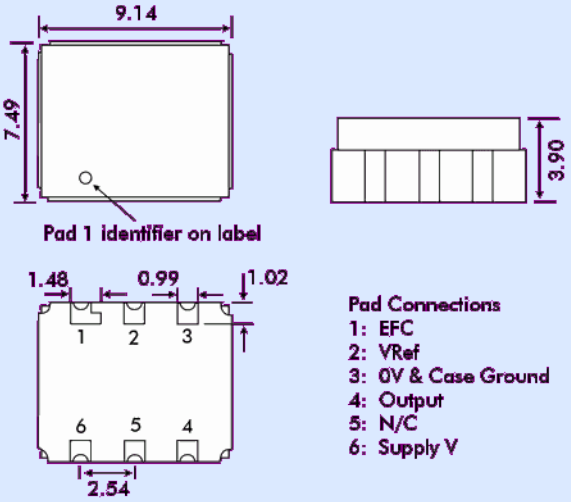
ENVIRONMENTAL

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.
(Other temperature stabilities are available)	-20 ~ +70	±0.3ppm	N37
	-20 ~ +70	±0.5ppm	N57
	-40 ~ +85	±0.5ppm	T57
	-40 ~ +85	±1.0ppm	T16
	-55 ~ +95	±2.0ppm	V26

T90 SERIES - OUTLINES AND DIMENSIONS



SPECIFYING INFORMATION

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

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:

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