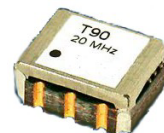


## Rugged construction CMOS/PECL/Sinewave 9 x 7.5 x 4mm SMD

- Very rugged construction TCXO
- Miniature SMD format
- Very close tolerances over temperature from 0.3ppm
- Wide frequency range, 10MHz to 200MHz
- Available with HCMOS, PECL, LVPECL or SINEWAVE outputs



### DESCRIPTION

T90 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 200.0MHz	
Output	HCMOS:	10MHz to 50MHz
	PECL:	50MHz to 200MHz
	Sinewave:	20MHz to 200MHz
Symmetry:	50% ± 10% (HCMOS)	
Output level	Sinewave:	+0.8Vp-p typical into 10pF/100kOhm
	HCMOS:	<0.2V min. to >Vcc-0.2V max.
Temperature Stability:	See table	
Ageing:	<1ppm/yr (10MHz typical)	
Frequency adjust:	+5ppm typical via 0 to +5V or 0 to +3.3V control voltage, pos. slope	
Supply Voltage:	+5.0VDC ±5% or +3.3VDC	
Supply Current	HCMOS:	<20mA
	PECL:	<50mA
	Sinewave:	<6mA

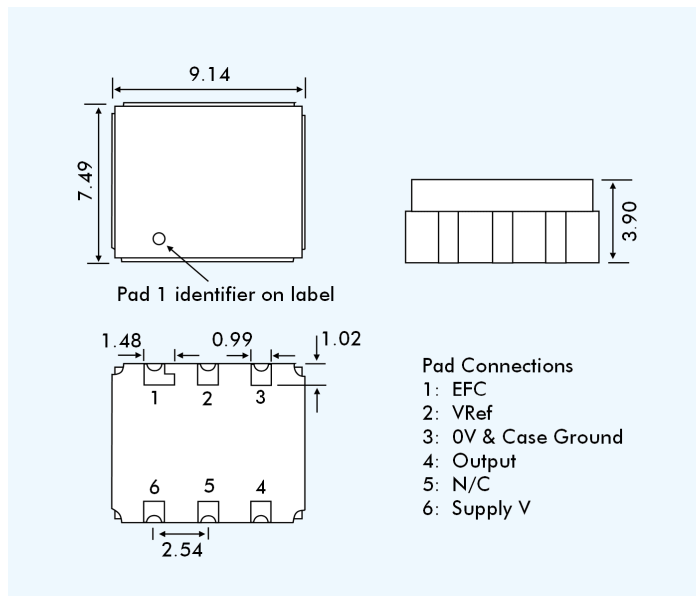
### ENVIRONMENTAL

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 available	-20 ~ +70	±0.3ppm
	-20 ~ +70	±0.5ppm
	-40 ~ +85	±0.5ppm
	-40 ~ +85	±1.0ppm
	-55 ~ +95	±2.0ppm

### T90 - OUTLINES AND DIMENSIONS



### SPECIFYING INFORMATION

Model No:	Input Voltage	Output Type
T90	+5.0V	HCMOS
T91	+3.3V	HCMOS
T92	+5.0V	PECL
T93	+3.3V	LVPECL
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 series TCXO. Contact Euroquartz technical sales with your requirements:

[technical@euroquartz.co.uk](mailto:technical@euroquartz.co.uk)