

## Rugged construction HCMOS/Sinewave 7 x 5 x 2mm SMD

- Very rugged construction TCXO
- Industry-standard 7x5mm miniature SMD format
- Tight tolerances over temperature from 0.3ppm
- Wide frequency range, 10MHz to 50MHz
- Available with HCMOS or CLIPPED SINEWAVE outputs



### DESCRIPTION

T75 series TCXOs are packaged in the industry-standard 7x5mm miniature SMD format. The parts have a rugged construction, able to withstand up to 100,000g and offer a wide frequency range with close tolerances over temperature.

### GENERAL SPECIFICATION

Frequency Range:	10.0MHz to 50.0MHz
Output:	HCMOS or Clipped Sinewave
Symmetry:	50%±10% (HCMOS)
Output level	
	Clipped Sine: +0.8Vp-p typical into 10pF/100kOhm
	HCMOS T75: +0.2V max. to +2.8V min
	HCMOS T76: +0.2V max to +4.2V min
Temperature Stability:	See table
Ageing:	<1 ppm/yr at 10MHz (typical)
Frequency adjust:	±4ppm typical via 0 to Vcc control voltage, positive slope.
Supply Voltage:	+3.3VDC ±5% or +5.0VDC
Supply Current	
	HCMOS: <6mA
	Clipped Sine: <2mA

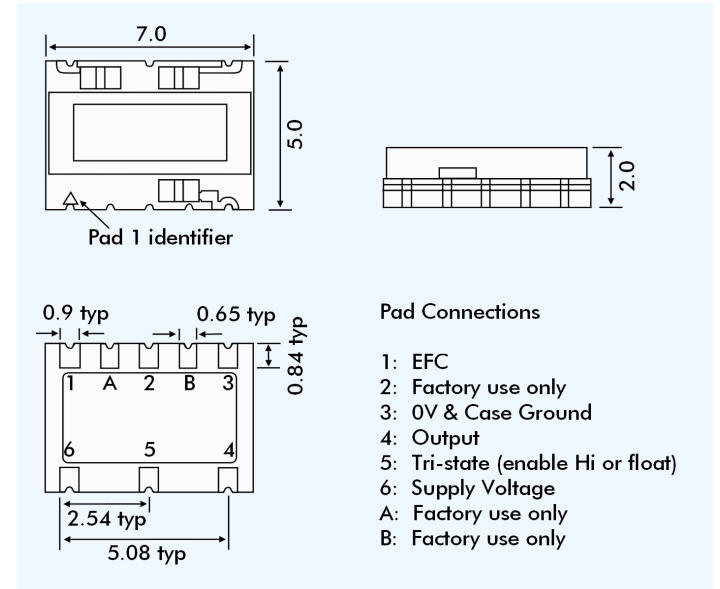
### ENVIRONMENTAL

Vibration: per MIL-STD-202G, Meth. 214, Cond. I-F  
 Shock: per MIL-STD-202G, Meth. 213, Cond. F  
 (Shock levels to 100,000g are available)

### FREQUENCY STABILITY OVER TEMPERATURE

Temperature Stability (°C)	Tolerance	Option
Other temperature stabilities available	-10 ~ +60	±0.3ppm G37
	-20 ~ +70	±0.5ppm N57
	-40 ~ +85	±0.5ppm T57
	-40 ~ +85	±1.0ppm T16
	-55 ~ +95	±2.0ppm V26

### T75 - OUTLINES AND DIMENSIONS



#### Pad Connections

- 1: EFC
  - 2: Factory use only
  - 3: 0V & Case Ground
  - 4: Output
  - 5: Tri-state (enable Hi or float)
  - 6: Supply Voltage
- A: Factory use only  
 B: Factory use only

### SPECIFYING INFORMATION

Model No:	Input Voltage	Output Type
T75	+3.3V	HCMOS
T76	+5.0V	HCMOS
T77	+3.3V	CLIP SINE
T78	+5.0V	CLIP SINE

### T75 - PART NUMBERING PROCEDURE

Example: **T75-G37-20.0MHz**  
 (Model number - option - frequency)

### T75 - CUSTOMISED PARAMETERS

There are a wide variety of custom options available for the T75 series TCXOs. Contact Euroquartz technical sales with your requirements:

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