

**Very Rugged TCXO, Low Noise**

**100.0MHz to 800.0MHz**

- Screening to MIL-PRF-55310, Class B available
- Rugged construction for severe environments
- Stability from  $\pm 0.5\text{ppm}$  over  $-40$  to  $+85^\circ\text{C}$
- LVDS output
- SMD package



**T1177 - OUTLINES AND DIMENSIONS**

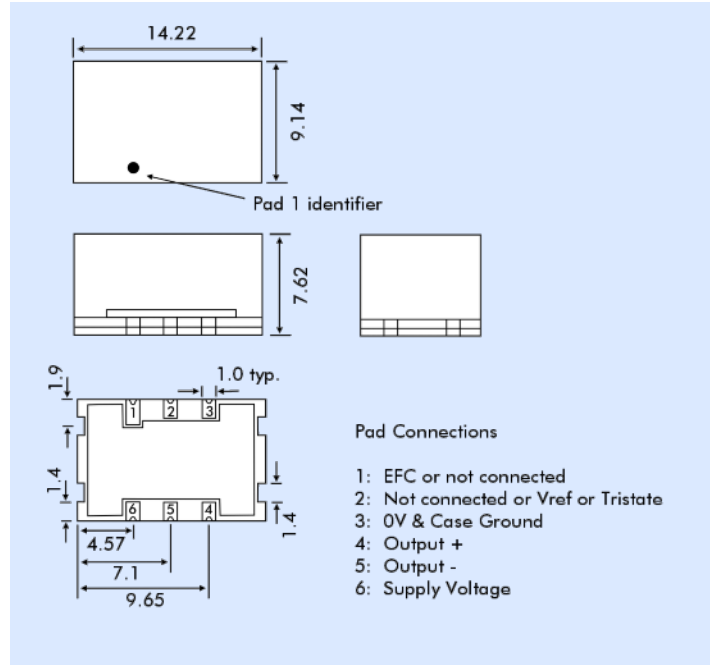
**DESCRIPTION**

T1177 series TCXOs are designed for rugged, severe environmental applications. The part provides tight stability from 0.5ppm over  $-40^\circ$  to  $+85^\circ\text{C}$ .

**GENERAL SPECIFICATION**

Frequency Range:	100.0MHz to 800.0MHz
Output:	LVDS
Supply Voltage:	+3.3VDC $\pm 5\%$
Supply Current:	<100mA
Symmetry:	50% $\pm 10\%$
Load:	100 Ohms
Reflow Shift:	<2.0ppm following a 48hr setting time
Ageing:	<1ppm/yr, <5ppm over 10 years
Frequency Adjust:	$\pm 5\text{ppm}$ typ. via 0 to +3.3V control voltage, positive slope; or no adjust.

*Designed and manufactured by Greenray Industries Inc.*



**STABILITY OVER TEMPERATURE**

Temp. Range	Stability	Option Code
$-40 \sim +85^\circ\text{C}$	$\pm 10\text{ppm}$	T15
$-40 \sim +85^\circ\text{C}$	$\pm 1.0\text{ppm}$	T16
$-40 \sim +85^\circ\text{C}$	$\pm 0.5\text{ppm}$	T57

**PHASE NOISE (800MHz TYPICAL)**

Offset	dBc/Hz
10Hz	-50
100Hz	-80
1kHz	-100
10kHz	-110
100kHz	-110

**ENVIRONMENTAL**

Storage Temperature:  $-55$  to  $+105^\circ\text{C}$   
 May be screened to MIL-PRF-55310, Class B.

**PART NUMBERING PROCEDURE**

Example:

**T1177-T57-3.3-100.0MHz**

