

- 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

DESCRIPTION

T1177 series TCXOs are designed for rugged, severe environmental applications. The part provides tight stability from 0.5ppm over -40° 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.

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

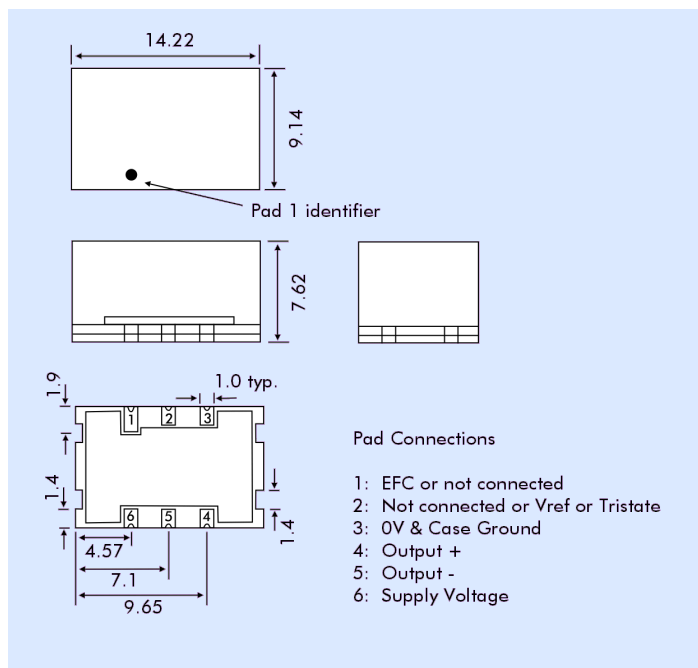
PHASE NOISE (800MHz TYPICAL)

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.

T1177 - OUTLINES AND DIMENSIONS



PART NUMBERING PROCEDURE

Example:

T1177-T57-3.3-100.0MHz

(Model number - Stability - Supply Voltage - Frequency)