T1185 Series TCXO

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 ±0.5ppm over -40 to +85°C**
- **LVPECL output**
- **SMD package**

DESCRIPTION

T1185 series TCXOs are designed for rugged, severe environmental applications. The part provides tight stability from 0.5ppm over -40° to +85°C.

GENERAL SPECIFICATION

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

STABILITY OVER TEMPERATURE

Temp. Range	Stability	Option Code
-40~+85°C	±10ppm	T15
-40~+85°C	±1.0ppm	T16
-40~+85°C	±0.5ppm	T57

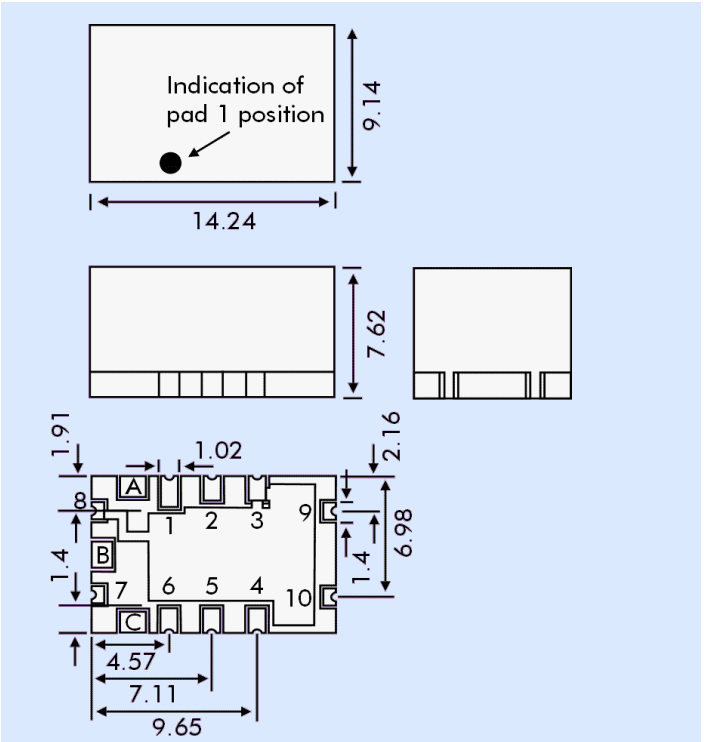
PHASE NOISE (800MHz TYPICAL)

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

ENVIRONMENTAL

Storage Temperature: -55 to +105°C
May be screened to MIL-PRF-55310, ClassB.

T1185 - OUTLINES AND DIMENSIONS



Pad Configuration
Pad 1 EFC or N.C.
Pad 2 N.C. or VREF or Tristate
Pad 3 0V and Case Ground
Pad 4 Output +
Pad 5 Output -
Pad 6 Supply Voltage

PART NUMBERING PROCEDURE

Example:

T1185-T57-3.3-100.0MHz

(Model number - Stability - Supply Voltage - Frequency)

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