

- **Low Phase Noise performance**
- **Ultra-low Acceleration Sensitivity**
- **Frequency Range: 10 - 50 MHz**
- **Output Signal: CMOS**
- **Industry-standard dual-in-line package**



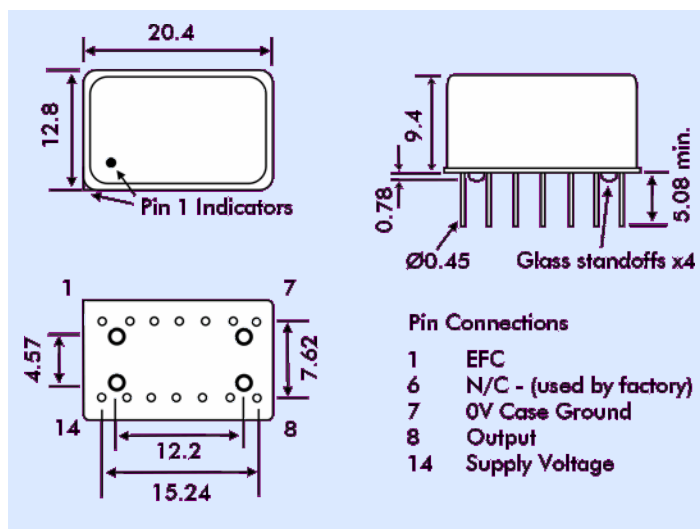
DESCRIPTION

T1300 series TCXOs are standard-packaged parts providing ultra-low acceleration sensitivity performance with close tolerance temperature stability. The part provides stability of $\pm 2 \times 10^{-6}$ ppm over -40° to $+85^{\circ}$ C.

GENERAL SPECIFICATION

Frequency Range:	10.0MHz to 50.0MHz
Output:	CMOS Square wave
Symmetry:	50% \pm 10%
Load:	15pF/10k Ω
Temperature Stability:	$\pm 2 \times 10^{-6}$ over -40° to $+85^{\circ}$ C
Frequency vs. Supply V:	$\pm 1 \times 10^{-7}$ for a 5% change
Frequency vs. Load:	$\pm 1 \times 10^{-7}$ for a 10% change
Short Term Variation:	$\pm 2 \times 10^{-10}$ typical for 1 sec. Tau (10MHz)
Ageing:	± 0.5 ppm /year after 14 days operation
Input Voltage:	+5.0VDC or +3.3VDC \pm 5%
Input Current:	15mA max.
Warm-up Time:	to within ± 1 ppm in 10ms.
G-Sensitivity:	$< 5 \times 10^{-11}$ /g, total gamma
Frequency Adjust:	± 6.0 ppm typical, positive slope 0 to Vcc EFC, 50k Ω input Z.

OUTLINES AND DIMENSIONS



PHASE NOISE

(At 10MHz +5V, Typical)

Offset	dBc/Hz
10Hz	-95
100Hz	-125
1kHz	-155
10kHz	-162
100kHz	-162

PART NUMBERING

Example: **T1300-3.3V-10.0MHz**

