T1300 Series TCXO

Ultra-low Acceleration Sensitivity — 10.0MHz to 50.0MHz

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

DESCRIPTION

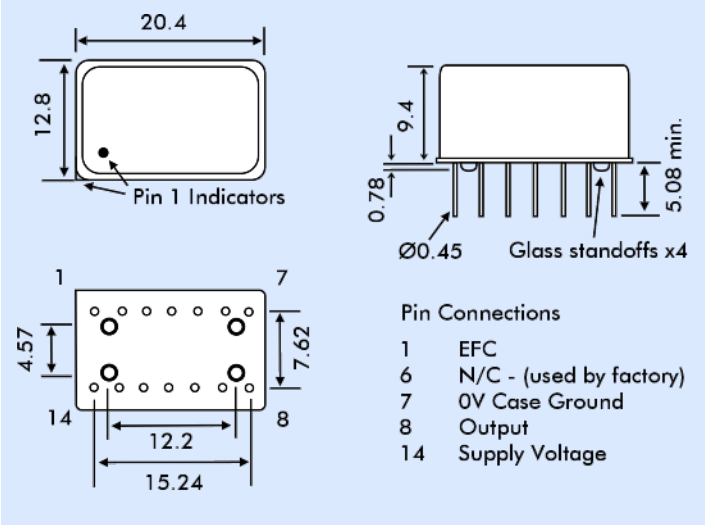
T1300 series TCXOs are standard-packaged parts providing ultra-low acceleration sensitivity performance with close tolerance temperature stability. The part provides stability of ±2x10^{-6}ppm over -40° to +85°C.

GENERAL SPECIFICATION

Frequency Range:	10.0MHz to 50.0MHz
Output:	CMOS Square wave
Symmetry:	50%±10%
Load:	15pF/10kΩ
Temperature Stability:	±2x10^{-6} over -40° to +85°C
Frequency vs. Supply V:	±1x10^{-7} for a 5% change
Frequency vs. Load:	±1x10^{-7} for a 10% change
Short Term Variation:	±2x10^{-10} typical for 1 sec. Tau (10MHz)
Ageing:	±0.5ppm /year after 14 days operation
Input Voltage:	+5.0VDC or +3.3VDC ±5%
Input Current:	15mA max.
Warm-up Time:	to within ±1ppm in 10ms.
G-Sensitivity:	<5x10^{-11}/g, total gamma
Frequency Adjust:	±6.0ppm typical, positive slope 0 to Vcc EFC, 50kΩ input Z.

Designed and manufactured by Greenray Industries Inc.

OUTLINES AND DIMENSIONS

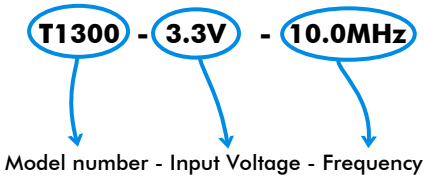


PHASE NOISE
(At 10MHz +5V, Typical)

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

PART NUMBERING

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



EUROQUARTZ LIMITED Blacknell Lane CREWKERNE Somerset UK TA18 7HE
Tel: +44 (0)1460 230000 Fax: +44 (0)1460 230001 info@euroquartz.co.uk www.euroquartz.co.uk