EUROQUARTZ

T1241 TCXO

Low Noise TCXO, Vibration Compensated 50MHz to 100MHz

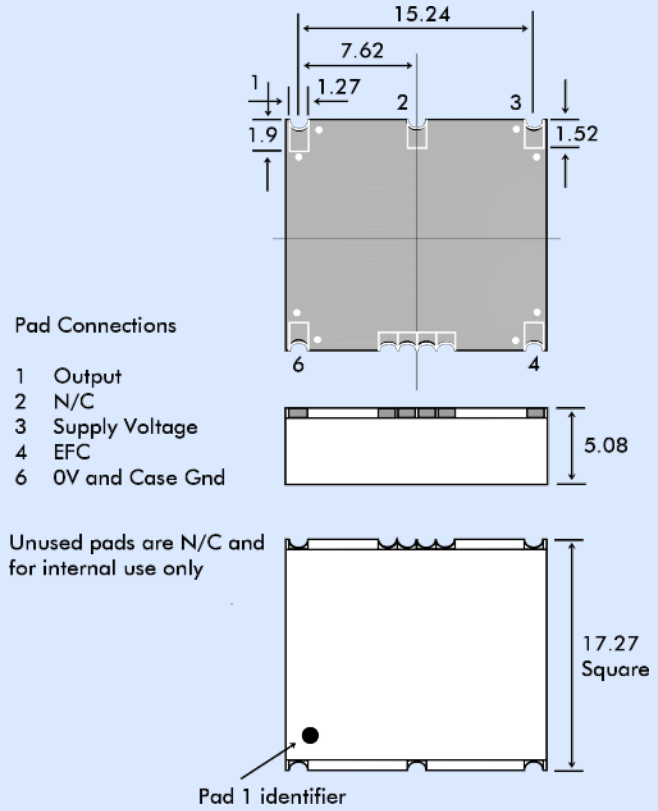
- **Rugged construction for severe environments**
- **Electrically compensated for vibration**
- **Frequency Range: 50MHz - 100MHz**
- **Tight temperature stability, from ±2ppm over -40° to +85°C**
- **Output Signal: CMOS Squarewave**

RoHS

SPECIFICATIONS

Frequency Range:	50MHz to 100MHz
Output:	CMOS into 15pF load±10%
Symmetry:	50% ±10%
Rise/Fall Time:	≤10ns
Frequency Stability:	±2x10^{-6} over -40° to +85°C *Ramp rate of up to 2°/minute. Shall meet spec within 1 minute of turn on.*
Frequency vs. Supply:	±3x10^{-7} for a 5% change
Ageing:	<1.0ppm/year
Supply Voltage:	+3.3VDC or +5.0VDC±5%
Input Current:	30mA maximum
Phase Noise:	*See table*
Acceleration Sensitivity:	≤7x10^{-10}/g in the worst axis (SD option) ≤7x10^{-11}/g in the worst axis (LG option)
Frequency Adjust:	±5.0ppm typical, positive slope 0V to Vsupply EFC

T1241 - OUTLINES AND DIMENSIONS



Pad Connections

1 Output
2 N/C
3 Supply Voltage
4 EFC
6 0V and Case Gnd

Unused pads are N/C and for internal use only

PHASE NOISE

Offset	dBc/Hz
10Hz	-70
100Hz	-100
1kHz	-135
10kHz	-155
100kHz	-160

Floor = -165dBc/Hz

ENVIRONMENTAL

Vibration:	per MIL-STD-202F, Meth. 214, Cond. I-F
Shock:	per MIL-STD-202F, Meth. 213, Cond K
Storage Temperature:	-55° to +95°C

PART NUMBERING

Example: **T1241-3.3-LG-100.0MHz**

Model number - I/p V. G-sensitivity - Frequency

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