EUROQUARTZ XO91 Low Frequency Oscillator

7 x 5mm SMD HCMOS 32.768kHz

FEATURES

- **Miniature 7.0 x 5.0 x 1.4mm hermetically-sealed package**
- **Frequency 32.000kHz**
- **Tristate (Enable/Disable) function as standard**
- **Supply voltage 5.0 Volts**

RoHS

DESCRIPTION

XO91miniature oscillators consist of a TTL/CMOS-compatible hybrid circuit together with a miniature quartz crystal packaged in a low-profile, industry-standard ceramic package. The high quality design and materials employed provide a highly reliable clock oscillator in a miniature package while mass production methods ensure that the XO91 provides a cost-effective oscillator solution.

SPECIFICATION

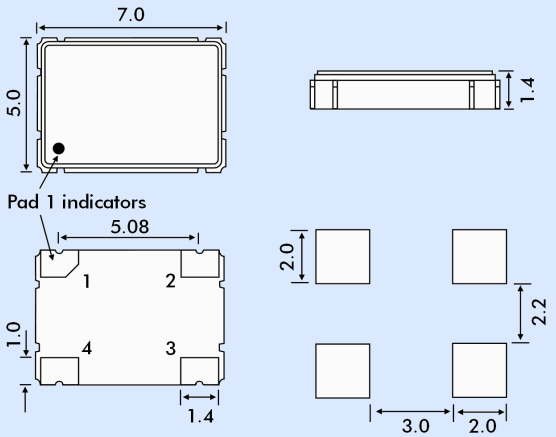
Frequency:	32.768kHz
Supply Voltage:	5.0 Volts ±10%
Output Logic:	HCMOS/LSTTL
Frequency Stability:	100ppm*
Rise/Fall Time:	4ns typical
Output Voltage:	
HIGH '1':	90%Vdd minimum
LOW '0':	10%Vdd maximum
Output Load	
CMOS:	15pF
TTL:	10 LSTTL loads
Duty Cycle:	50%±5%
Supply Current:	8.0mA typical, 15mA maximum
Operating Temperature:	-10° to +70°C
Storage Temperature:	-40° to +85°C
Startup Time:	2ms typical
Ageing:	±3ppm max. per year

Tristate Function (Pad 1):
Output (Pad 3) is active if Pad 1 is not connected or a voltage to Pad 1 is 'HIGH'. Output is high impedance when 'LOW' or GROUND is applied to Pad 1.

* Frequency stability is inclusive of calibration tolerance at 25°C, frequency change due to shock & vibration, ±10 supply voltage variation and stability over temperature range.

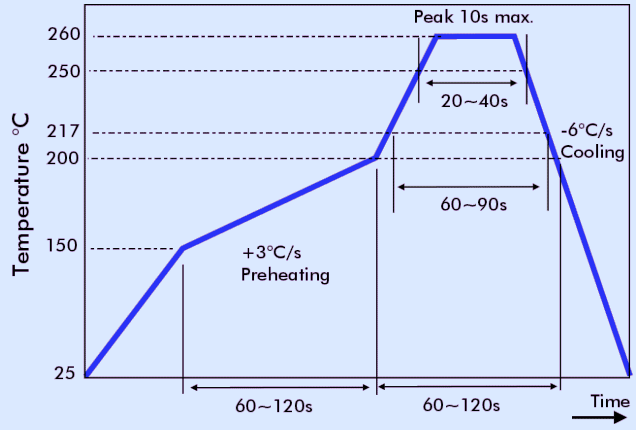
Note: Parameters are measured at ambient temperature of 25°C, supply voltage as stated and a load of 15pF

OUTLINE & DIMENSIONS

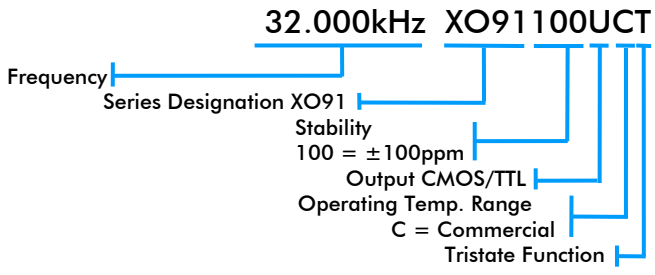


Pad Connections
1 Enable/Disable
2 Ground
3 Output
4 Supply Voltage

SOLDER TEMPERATURE PROFILE



PART NUMBERING



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