EQXO-2000 Series
8 pin Dual-in-Line Clock Ocillators

DESCRIPTION

The Euroquartz EQXO-2000 series of 8 pin dual-in-line oscillators consist of a Universal, TTL and CMOS compatible hybrid substrate and quartz crystal in a hermetically-sealed package. The oscillators provide a proven and reliable source of clock signals with low unit cost.

PRODUCT FEATURES

- **Industry-standard 8 pin DIL package for compatibility**
- **Wide frequency range 20kHz to 160MHz**
- **Choice of supply voltage 3.3 Volts or 5.0 Volts DC**
- **Hermetically sealed package for reliability and low ageing**
- **Optional Tristate function (Enable/Disable)**
- **Comprehensive stock holding**
- **Custom frequencies readily produced in Euroquartz factory**

SPECIFICATION

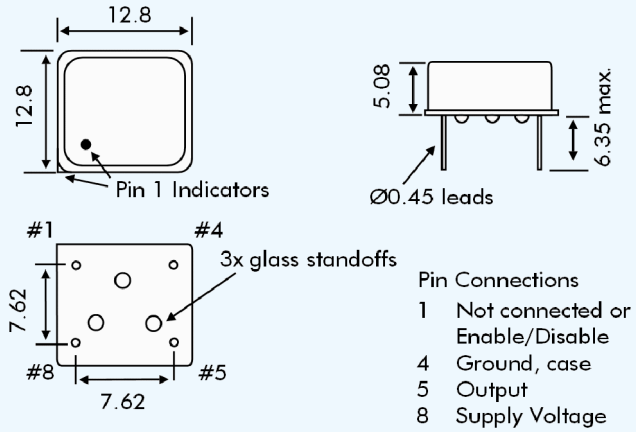
Series Model Number:	EQXO-2000
Frequency Range:	20kHz to 160MHz
Frequency Stability*:	*See table*
Supply Voltage:	+5.0 Volts DC±10%
Output Load	
HCMOS:	15pF standard, 50pF available
TTL:	2 to 10TTL gates
Symmetry	
HCMOS:	40/60% measured at 50%Vdd
TTL:	40/60% measured at 1.4 Volts
Operating Temperature Range	
Commercial:	0° to +70°C
Industrial:	-40° to +85°C
Extended Industrial:	-55° to +105°C
Storage Temperature Range:	-55° to +105°C
Start-up Time:	5ms typical, 10ms max.
Current Consumption:	15mA ~ 45mA (frequency dependant)
Tristate Option:	Output is high impedance when '0' (<0.8 Volts) is applied to Pin 1, (internal pull-up). Disable time = 150ns max.

** The frequency stability parameter is inclusive of frequency adjustment at 25°C and any variations due to load change, ageing, supply voltage change (±10%) and variations attributable to shock and vibration.*

TTL/HCMOS Voltage Levels

Input Voltage:	+3.3 VDC	+5.0 VDC
Frequency Range:	20kHz ~ 125MHz	20kHz ~ 160MHz
Output Voltage		
TTL HIGH '1':	2.4 V min.	2.4V min.
HCMOS HIGH '1':	2.97 V min.	Vcc - 0.5V min.
TTL LOW '0':	0.4V max.	0.4V max.
HCMOS LOW '0':	0.33V max.	0.5V max

OUTLINE & DIMENSIONS



MODEL NUMBERS

Model Number	Stability over O.T.R. (ppm)	Operating Temperature Range
EQXO-2010UC	±10ppm	0° ~ +50°C
EQXO-2015UC	±15ppm	0° ~ +70°C
EQXO-2025UC	±25ppm	0° ~ +70°C
EQXO-2050UC	±50ppm	0° ~ +70°C
EQXO-2100UC	±100ppm	0° ~ +70°C
EQXO-2025UI	±25ppm	-40° ~ +85°C
EQXO-2050UI	±50ppm	-40° ~ +85°C
EQXO-2100UI	±100ppm	-40° ~ +85°C
EQXO-2050UIE	±50ppm	-55° ~ +105°C
EQXO-2100UIE	±100ppm	-55° ~ +105°C

EXTENDED INDUSTRIAL TEMPERATURE RANGE

The part previously specified by Euroquartz Ltd as EQXO-2050UM or EQXO-2100UM has been superceeded by the extended-industrial temperature range part EQXO-2***UIE. This part will perform within specification over the temperature range of -55° to +105°C. Should a full military temperature range oscillator be required see specification for EQXO-2000BM series.

PART NUMBER GENERATION

EQXO-2000 series oscillator part numbers are derived as follows:
Example: 10.000MHz EQXO-2050UIET3:

10.000MHz EQXO-2050 U IE T 3

Frequency
Model number (see table above)
U - Universal output
C - Commercial temperature
I - Industrial temperature
IE - Extended Industrial temperature
T - Tristate function (option)
Blank - 5.0 Volts supply
3 - 3.3 Volts supply

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