

EQXO-1000 Series 14 pin Dual-in-Line Clock Oscillators

DESCRIPTION

The Euroquartz EQXO-1000 series of 14 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 14 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

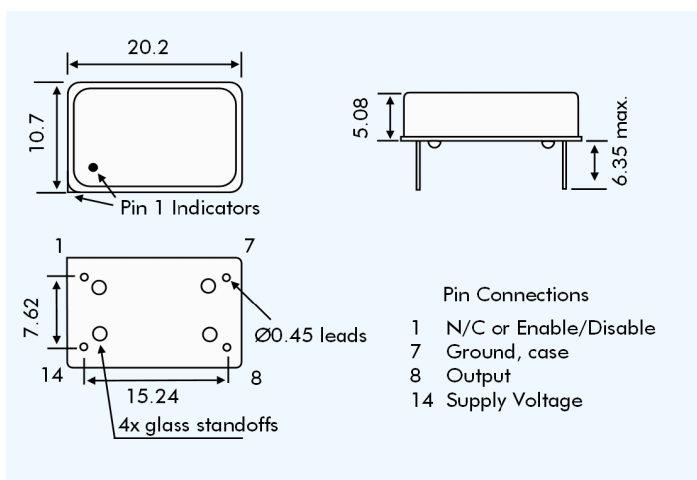
Series Model Number:	EQXO-1000
Frequency Range:	20kHz to 160MHz
Frequency Stability*:	See table
Supply Voltage:	+5.0 Volts DC \pm 10%
Output Load	
HCMOS:	15pF standard, 50pF available
TTL:	2 to 10TTL gates
Symmetry	
HCMOS:	40/60% measured at 50%Vdd
TTL:	40/60% measured at 1.4 Volts
Operating Temperature 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 (\pm 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.	V _{cc} - 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-1010UC	\pm 10ppm	0° ~ +50°C
EQXO-1015UC	\pm 15ppm	0° ~ +70°C
EQXO-1025UC	\pm 25ppm	0° ~ +70°C
EQXO-1050UC	\pm 50ppm	0° ~ +70°C
EQXO-1100UC	\pm 100ppm	0° ~ +70°C
EQXO-1025UI	\pm 25ppm	-40° ~ +85°C
EQXO-1050UI	\pm 50ppm	-40° ~ +85°C
EQXO-1100UI	\pm 100ppm	-40° ~ +85°C
EQXO-1050UIE	\pm 50ppm	-55° ~ +105°C
EQXO-1100UIE	\pm 100ppm	-55° ~ +105°C

EXTENDED INDUSTRIAL TEMPERATURE RANGE

The part previously specified by Euroquartz Ltd as EQXO-1050UM or EQXO-1100UM has been superceded by the extended-industrial temperature range part EQXO-1***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-1000BM series.

PART NUMBER GENERATION

EQXO-1000 series oscillator part numbers are derived as follows:
Example: 10.000MHz EQXO-1050UIET3:

