

8 pin Dual-in-Line Gull-Wing Clock Ocillators

- 8 pin DIL package with 'Gull-Wing' leads for SMD use
- 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

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.

SPECIFICATION

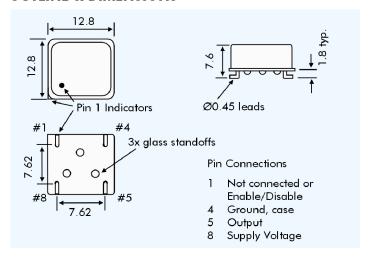
Series Model Number:	EQXO-2000GW	
Frequency Range:	20kHz to 160MHz	
Frequency Stability*:	See table	
Supply Voltage:	+5.0VDC±10% or +3.3VDC±5%	
Output Load		
HCMOS: TTL:	15pF standard, 50pF available 2 to 10TTL gates	
Symmetry		
HCMOS:	40/60% measured at 50%Vdd	
TTL:	40/60% measured at 1.4 Volts	
Operating 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		

^{*} 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: Output Voltage	20kHz ~ 125MHz	20kHz ~ 160MHz
TTL HIGH '1':	2.4 V min.	2.4V min.
HCMOS HIGH '1': TTL LOW '0:	2.97 V min. 0.4V max.	Vcc - 0.5V min. 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-GW	±10ppm	0° ∼ +50°C
EQXO-2015UC-GW	±15ppm	0° ∼ +70°C
EQXO-2025UC-GW	±25ppm	0° ∼ +70°C
EQXO-2050UC-GW	±50ppm	0° ∼ +70°C
EQXO-2100UC-GW	±100ppm	0° ∼ +70°C
EQXO-2025UI-GW	±25ppm	-40° ∼ +85°C
EQXO-2050UI-GW	±50ppm	-40° ∼ +85°C
EQXO-2100UI-GW	±100ppm	-40° ∼ +85°C
EQXO-2050UIE-GW	±50ppm	-55° ~ +105°C
EQXO-2100UIE-GW	±100ppm	-55° ~ +105°C

EXTENDED INDUSTRIAL TEMPERATURE RANGE

The part previously specified by Euroquartz Ltd as EQXO-2050UM-GW or EQXO-2100UM-GW has been superceeded by the extended-industrial temperature range part EQXO-2***UIE-GW. 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-GW series oscillator part numbers are derived as follows: Example: 10.000MHz EQXO-2050UIET3-GW:

