

PRODUCT FEATURES

- Industry-standard 14 pin DIL package for compatibility
- Wide frequency range from 20kHz to 160MHz
- Supply voltage 1.8V, 2.5V, 3.3V or 5.0 Volts DC
- Hermetically sealed package for reliability and low ageing
- Optional Tristate function (Enable/Disable)
- Comprehensive stock holding
- Custom frequencies speedily produced in Euroquartz factory



DESCRIPTION

The Euroquartz EQXO-1000 series of 14 pin dual-in-line oscillators consist of a Universal, TTL/CMOS hybrid substrate and quartz crystal in a hermetically-sealed package. The oscillators provide a reliable source of clock signals with low unit cost.

SPECIFICATION

Series Number:	EQXO-1000		
Frequency Range:	20kHz to 160MHz		
Frequency Stability*:	See table		
Supply Voltage:			
	+1.8 Volts $\pm 5\%$:	CMOS	1.8MHz to 60.0MHz
	+2.5 Volts $\pm 5\%$:	CMOS	0.3MHz to 125MHz
	+3.3 Volts $\pm 5\%$:	TTL/CMOS	20kHz to 130MHz
	+5.0 Volts $\pm 10\%$:	TTL/CMOS	20kHz to 160MHz

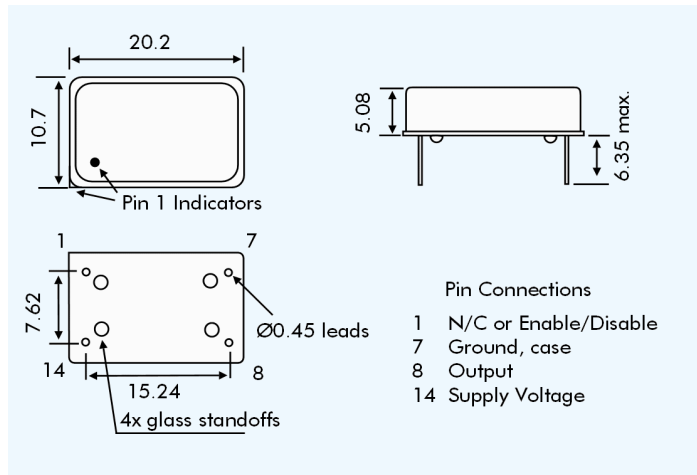
Output Load	HCMOS:	15pF standard, 50pF available
	TTL:	2 to 10TTL gates

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	
Storage Temperature Range:	-55° to +105°C	
Start-up Time:	5ms typical, 10ms max.	
Current Consumption:	10mA ~ 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.

OUTLINE & DIMENSIONS

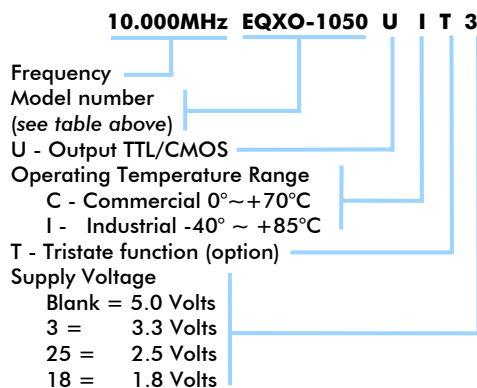


MODEL NUMBERS

Model Number	Stability over O.T.R.	Operating Temperature Range
EQXO-1010UC	$\pm 10\text{ppm}$	0° ~ +50°C
EQXO-1015UC	$\pm 15\text{ppm}$	0° ~ +70°C
EQXO-1025UC	$\pm 25\text{ppm}$	0° ~ +70°C
EQXO-1050UC	$\pm 50\text{ppm}$	0° ~ +70°C
EQXO-1100UC	$\pm 100\text{ppm}$	0° ~ +70°C
EQXO-1025UI	$\pm 25\text{ppm}$	-40° ~ +85°C
EQXO-1050UI	$\pm 50\text{ppm}$	-40° ~ +85°C
EQXO-1100UI	$\pm 100\text{ppm}$	-40° ~ +85°C

PART NUMBER GENERATION

EQXO-1000 series oscillator part numbers are derived as follows:
Example: **10.000MHz EQXO-1050UIT3**



TTL/HCMOS Voltage Levels

Output Voltage Level	Supply Voltage			
	+1.8 V	+2.5 V	+3.3 V	+5.0 V
TTL HIGH '1':			2.4V	2.4V
HCMOS HIGH '1':	1.62V	2.25V	2.97V	4.5V
TTL LOW '0':			0.4V	0.4V
HCMOS LOW '0':	0.18V	0.25V	0.33V	0.5V