PRODUCT FEATURES

- **Industry-standard 8 pin DIL package for compatibility**
- **Wide frequency range from 50kHz to 160MHz**
- **Choice of supply voltage 1.0V, 1.2V, 1.8V, 2.5V, 3.3V or 5.0V**
- **Hermetically sealed package for reliability and low ageing**
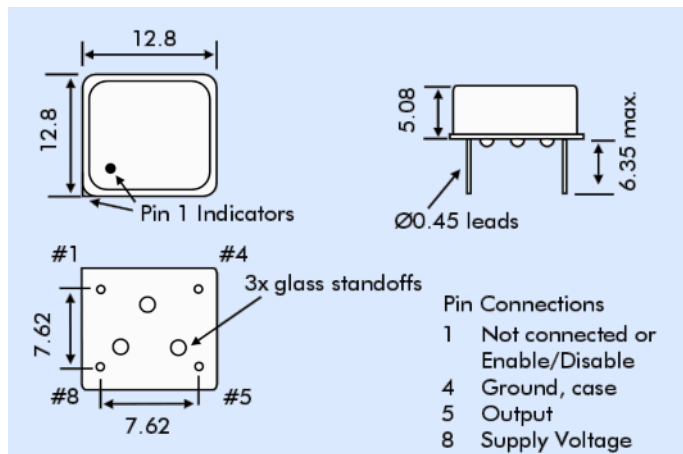- **Optional Tristate function (Enable/Disable)**

DESCRIPTION

The Euroquartz EQXO-2000 series of 8 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-2000
Frequency Range:		50kHz to 160MHz
Frequency Stability*:		*See Model Number table*
Supply Voltage:		
	+1.0V±5%:	0.75~50MHz
	+1.2V±5%:	0.75~50MHz
	+1.8V±10%:	0.05~160MHz
	+2.5V±10%:	0.05~160MHz
	+3.3V±10%:	0.05~160MHz
	+5.0V±10%:	0.05~135MHz
Output Load		
	HCMOS:	15pF standard, 30pF & 50pF available
Rise/Fall Time		
	HCMOS:	10ns max., 3ns typical. Measured between10% to 90% waveform (CL=15pF)
Duty Cycle:	HCMOS:	40% (min.)/60% (max.) Measured at 50% waveform. 50%±5% is available, add 'S' to part number.
Operating Temperature Range		
Commercial:		0° to +70°C
Industrial:		-40° to +85°C
Storage Temperature Range:		-55° to +150°C
Start-up Time:		5ms typical, 10ms max.
Current Consumption:		4mA ~ 40mA *frequency dependant*
Tristate Option:		70% of Supply Voltage to enable output 30% of Supply Voltage to disable output

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.

OUTLINE & DIMENSIONS

Pin 1 Indicators

Ø0.45 leads

3x glass standoffs

Pin Connections
1 Not connected or Enable/Disable
4 Ground, case
5 Output
8 Supply Voltage

MODEL NUMBERS

Model Number	Stability over O.T.R.	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

PART NUMBER GENERATION

EQXO-2000 series oscillator part numbers are derived as follows:
Example: **10.000MHz EQXO-2050UIT3**:

10.000MHz EQXO-2050 U I T 3

Frequency

Model number
(*see table above*)

U - Output TTL/CMOS

Operating Temperature Range
C - Commercial 0°~+70°C
I - Industrial -40° ~ +85°C

T - Tristate function (option)

Supply Voltage
1 = 1.0V
12 = 1.2V
18 = 1.8V
25 = 2.5V
33 = 3.3V
Blank = 5.0V

Option eg:
S = Duty Cycle 45/55%
50P = 50pF Drive level

Issue 3