

EQXO-2000XN Series Oscillators

8 pin Dual-in-Line

1.75MHz to 60.0MHz

Page 1 of 1

PRODUCT FEATURES

- Industry-standard 8 pin DIL package for compatibility
- Highly reliable industrial CMOS oscillator
- -55°C to +125°C Wide operating temperature
- Supply voltage 1.8V, 2.5V or 3.3V Volts DC
- Femto second integrated phase jitter 150fs typical
- Superior phase noise performance
- ITAR FREE



The Euroquartz EQXO-2000XN series of 8 pin dual-in-line CMOS oscillators consist of a universal, hi-temp quartz crystal oscillator in a hermetically-sealed package. The oscillators provide a reliable source of clock signals with superior phase noise and jitter performance at low unit cost. The EQXO-2000XN series is ITAR free and manufactured in the UK.

SPECIFICATION

Series Number:		EQXO-2000XN		
Frequency Range:		1.75MHz to 60MHz		
Frequency Stability*:		±50ppm across -55°C +125°C		
		±100ppm across -55°C +125°C		
Supply Voltage:		+1.8 Volts ±109	6:	
		+2.5 Volts ±10%:		
		+3.3 Volts ±10%	6	
Output Load	HCMOS:	15pF		
Rise/Fall Time				
	1.8 - 2.5 VDD:	7ns (max.)		
	3.3 VDD:	10ns (max.)		
		Measured between 10% to 90%		
		waveform (CL=1	5pF)	
Duty Cycle:			Standard:50% ±10%;	
			is available, add	
		'S' to part number.		
Operating Temperature Range:		-55° to +125°C		
Storage Temperature Range:		-55° to +125°C		
Start-up Time:		5ms (max.)		
Current Consumption:		1.75 - 20MHz	20 - 60MHz	
1.8VDD		2mA	4mA	
2.5VDD		3mA	5mA	
3.3VDD		4mA	6mA	
Tristate Option:		Output is high impedance when		
		, ,	applied to Pin 1,	
		(internal pull-up)		
		Disable time = 150ns max.		
	se (26MHz, 3.3V)			
·	OHz 100Hz 1kHz			
	94 -127 -142		-163 -163	
	S) [26MHz, 3.3V]:	150fs(typ)[12kHz to 20MHz integ]		
Ageing at Ta=	+25°C	±2ppm max. For	±2ppm max. For first year	

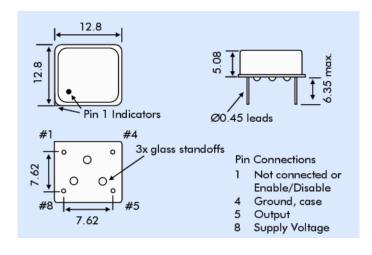
^{*} The frequency stability parameter is inclusive of frequency adjustment at 25°C and any variations due to load change, ageing, supply voltage change (±10%) and variations attributable to shock and vibration.







OUTLINE & DIMENSIONS



Out Voltage Level	Supply Voltage		
Our vollage Level	+1.8 V	+2.5 V	+3.3 V
Logic Hi '1' (90% VDD max.) 1.6		2.25V	2.97V
Logic Lo '0' (10% VDD max.)	0.18V	0.25V	0.33V

PART NUMBER GENERATION

EQXO-2000XN series oscillator part numbers derived as follows: Example: 10.000MHz EQXO-2050XNT3:

