

## 32.768kHz Low Power Clock Oscillator

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### FEATURES

- Micro-miniature 6.5mm x 4.0mm package
- Exceptionally low supply current <5µA
- Wide supply voltage range, 1.5Volts to 6.0 Volts
- Tristate function to conserve power
- Stable and clean CMOS output



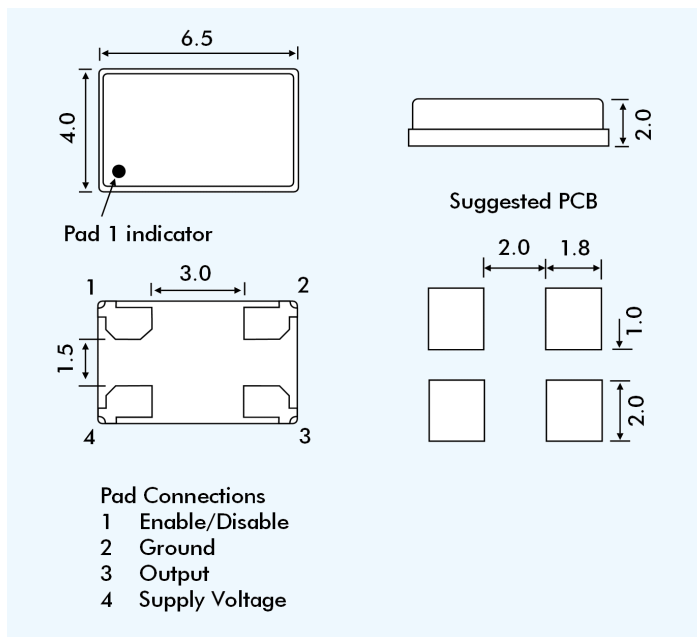
### DESCRIPTION

XO64 oscillators are produced in a micro-miniature package and provide 32.768kHz with low power consumption, typically 5 micro Amps maximum at 3.3 Volts, even less for lower supply voltages. Additionally, to conserve power the oscillator has a Tristate function implemented by default. The oscillator can be supplied with any voltage from 1.5 Volts to 6.0 Volts. The XO64 oscillator is an ideal choice for a wide range of battery powered, hand held equipment.

### SPECIFICATION

Frequency:	32.7680kHz
Frequency stability*	+30ppm to -60ppm
-10° to +60°C:	+30ppm to 0ppm
+25°C:	(Vdd 2.0V to 6.0V)
Temperature Range:	-10° to +60°C (Operating)
Input Voltage:	+1.5 Volts to 6.0 Volts
Input Current:	5 micro Amps (at +3.3V supply)
Output:	HCMOS
Output Load:	15pF
Rise and Fall Times:	200ns max.
Tristate:	See note**
Start-up Time:	500ms max. (3.3 Volts supply at 25°C)

### OUTLINE & DIMENSIONS



### NOTES

\* Frequency stability parameter includes calibration tolerance at 25°C, temperature variations, frequency change due to shock and vibration and ±10% supply voltage variation.

\*\* Output (Pad 3) is active if not connected or a voltage to Pad 1 is 'HIGH'. Output is high impedance when 'LOW' or Ground is applied to Pad 1.

### PART NUMBER

XO64 oscillators part numbers are ordered with this part number:

**32.7680kHz XO64**

Euroquartz stock number for this part is **VH32768**