EURO QUARTZ

CXOL OSCILLATOR

Ultra-low Current, Miniature Oscillator

32kHz ~ 100kHz

cxol

FEATURES

- Ultra-low current consiumption
- Typical start-up time of 200ms
- Typical Rise/Fall times of 25ns
- Hermetically sealed ceramic package
- Optional output enable/disable with Tri-state
 Eull military to size any title DEF 55010
- Full military testing per MIL PRF 55310 available

DESCRIPTION

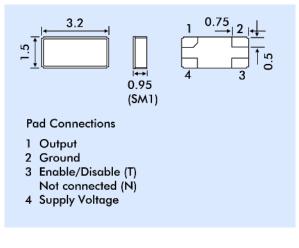
CXOL oscillators are ultra-miniature (32. x 1.5mm), ultra-low current quartz crystal oscillators with a typical start-up time of 200ms. Hermetically sealed in a highy reliable ceramic housing, these oscdillators are available over a wide range of input voltages (1.2V \sim 5.0V).

SPECIFICATION

Specifications are typical at 25°C unless otherwise indicated. Tighter specifications are available, contact Euroquartz technical sales.

Frequency Range:	32.0kHz to 100.0kHz	
Supply Voltage:	+1.2 Volts to +5.0 Volts ±10%	
Current Consumption:	32.768kHz: 2.8μA	
	32.768kHz: 0.4μA	
	100.0kHz: 8.0μA	
Calibration Tolerance:	± 20 ppm, ± 50 ppm or ± 100 ppm	
Voltage Coefficient:	±1ppm/V	
Output Load:	10pF <i>(CMOS)</i>	
Ageing First Year:	±2ppm	
Shock, Survival:	Standard: 5000g, 0.3ms, ½ sine	
Vibration Survival:	20g, 10~2000Hz swept sine	
Start-up Time:	200ms	
Operating Temperature:	-10°C to+70°C (Commercial)	
	-40°C to +85°C (Industrial)	
	-55°C to +125°C (Military)	

OUTLINE & DIMENSIONS



ENABLE/DISABLE OPTIONS

There are two Enable/Disable options available, 'T' and 'N'. The 'T' version has a Tri-State output and continues oscillating internally when the output is put into a high Z state. The 'N' version does not have PAD 3 connected internally and so has no Tri-State capability. The table below describes the Tri-State option 'T':

	Enable (Pad 3 High)	Disable (Pad 3 Low)
Output	Frequency Output	High Z state
Int. Oscillator	Oscillates	Oscillates
Current	Normal	Lower than normal

When Pad 3 is allowed to float it is held high by an internal pull-up resistor.

PACKAGING OPTIONS

CXOL oscillators are available either tray packed (<250pcs) or tape and reel (>250 pieces). 12mm tape, 178mm or 330mm reels (EIA 418).

HOW TO ORDER CXOL SMD CRYSTAL OSCILLATORS

