

**FEATURES**

- Low current consumption - 55µA at 1MHz
- Fast start-up (1ms typical)
- Tight tolerance
- High shock resistance (10,000g typical)
- Low ageing
- Hermetically sealed package



**DESCRIPTION**

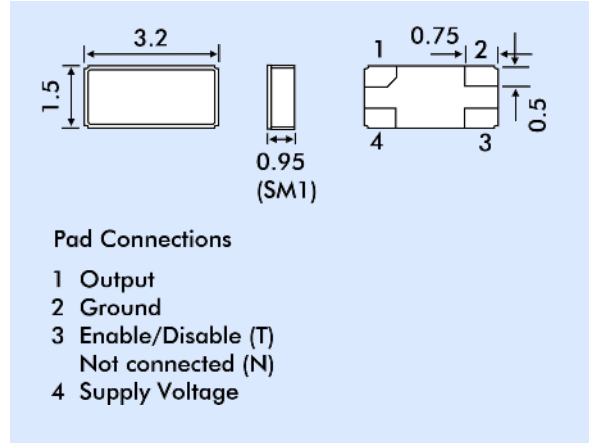
CXOLP oscillators are ultra-miniature (3.2 x 1.5mm), low power (55µA at 1.0MHz), fast start-up time (1ms typical) and low ageing (±2ppm in first year) quartz crystal oscillators. The part is hermetically sealed in a highly reliable ceramic housing. The oscillator is available at frequencies from 1.0MHz to 8.5MHz with operating temperature range of -55° to +125°C. Designed and manufactured in USA by Statek Inc.

**SPECIFICATION**

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

Supply Voltage:	+1.8 to +3.3 Volts ±10%
Calibration Tolerance:	±25ppm
Current Consumption:	See table
Frequency Stability over Temp:	
-10°~+60°C (Commercial):	±10ppm to ±50ppm
-40°~+85°C (Industrial):	±20ppm to ±100ppm
-55°~+125°C (Military):	±40ppm to ±100ppm
Output Load:	5pF (CMOS)
Ageing First Year:	±2ppm
Shock, Survival:	10,000g, 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)
Moisture Sensitivity (MSL):	Hermetically sealed, MSL not relevant.

**OUTLINE & DIMENSIONS**



**ENABLE/DISABLE OPTIONS**

There are two Enable/Disable options available, 'E' and 'N'. The 'E' version has a Tri-State output and stops 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 enable/disable capability. The table below describes the Tri-State option 'E':

	Enable (Pad 3 High)	Disable (Pad 3 Low)
Output	Frequency Output	High Z state
Int. Oscillator	Oscillates	Stops
Current	See table below	Less than 1µA at 25°C

**PACKAGING OPTIONS**

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

**HOW TO ORDER CXOLP SMD CRYSTAL OSCILLATORS**

