# EURO QUARTZ

## LVDS 7x5mm 3.3V OSCILLATOR

### **EQXP-LC73 SERIES**

#### Features

- Extremely low jitter
- Low cost
- Express delivery
- Stability from ±20ppm, -40 to +85°C
- RoHS compliant
- Serial ID with comprehensive traceability

#### Description

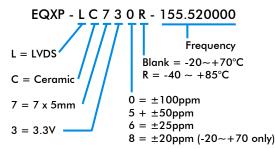
The XPRESSO range of fully configurable oscillators utilizes a family of proprietary ASICs developed for noise reduction to provide oscillators with noise levels comparable to traditional bulk-produced quartz and SAW-based oscillators.

XPRESSO oscillators are low-cost, low-noise, with a wide frequency range, excellent ambient performance and available on very short leadtimes. All XPRESSO oscillators are 100% final tested.

#### **Electrical Specification**

Frequency Range:	0.750MHz ~ 1.35GHz
Frequency stability:	from ±20ppm to ±100ppm
Operating Temperature Range:	-40° ∼ +85°C
Storage Temperature Range:	-55° ~ +125°C
Supply Voltage:	+3.3 Volts ±5%
Input Current:	100mA
Output Symmetry:	45/55%
Rise/Fall Time:	400ps
Differential Output Voltage:	0.250 Volts ~ 0.450 Volts
Output Offset Voltage:	1.25 Volts typical
Differential Output Swing:	0.35Volts p-p min.
Output Load:	100Ω typical
Start-up Time:	10ms
Output Enable/Disable Time:	100ns
Maximum Soldering Parameters:	260°C for 10 seconds
Moisture Sensitivity Level:	1
Termination Finish:	Au
Supply Format:	Tape and Reel, 16mm tape, 8.0mm pitch, 255mmØ reel

#### **Model Selection Guide**



#### Jitter Measurements

			Rj/Dj Composition		
Frequency (MHz)	Phase Jitter (12kHz~20MHz) (ps RMS)	Time Interval Error σ of jitter distribution (ps RMS)	Random Jitter (Rj) (ps RMS)	Deterministic Jitter (Dj) (ps p-p)	Total Jitter (Tj) (14*Rj)+Dj (ps)
106.25	0.83	3.5	0.7	7.1	17.2
156.25	1.28	3.6	1.3	5.8	23.6
212.50	0.89	3.9	0.9	6.7	18.7
622.08	0.99	3.2	1.1	5.3	20.7

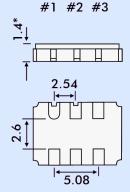
#### EUROQUARTZ LIMITED Blacknell Lane CREWKERNE Somerset UK TA18 7HE Tel: +44 (0)1460 230000 Fax: +44 (0)1460 230001 Email: info@euroquartz.co.uk www.euroquartz.co.uk



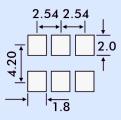


#### **Typical applications**

- Any application requiring an oscillator.
- SONET
- Ethernet
- Storage Area Networks
- Broadband Access
- Microprocessors/DSP/FPGA
- Industrial Controllers
- Test and measurementFibre Channel



Solder Pad



#### **Pad Connections**

Enal	ble/l	Disal	ble
Not	con	necte	ed

- Not connected
  Ground
- 4 Output

1

- 5 Output
- 6 Vcc <sup>'</sup>

#### **OUTLINE & DIMENSIONS**

#6

max.

5.21

7.5 max.

#5 #4

Freq: 0.75MHz to 1.35GHz