

# LVPECL 7x5mm 3.3V OSCILLATOR

# **EQXP-PC73 SERIES**

Freq: 0.75MHz to 1.35GHz

### 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.

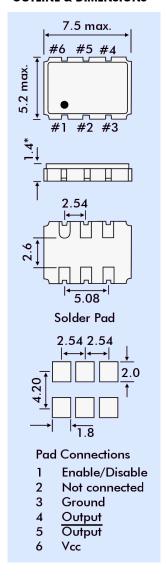
## **Electrical Specification**

Lietifical opecification			
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:	120mA		
Output Load:	50Ω into Vdd-2VDC, typical		
Start-up Time:	10ms		
Output Enable/Disable Time:	100ns		
Moisture Sensitivity Level:	1		
Termination Finish:	Αu		
Output Low Voltage:	1.305 Volts ~ 1.65 Volts		
Output High Voltage:	2.055 Volts ~ 2.405 Volts		
Typical Complimentary Difference:	0.750 Volts p-p typical		
Output Symmetry:	45/55%		
Output Enable Voltage:	>70% Vdd		
Output Disable Voltage:	<30% Vdd		
Rise/Fall Time:	400ps		
Maximum Soldering Parameters:	260°C for 10 seconds		
Supply Format:	Tape and Reel, 16mm tape, 8.0mm pitch, 1k reel = 178mmØ 2k reel = 255mmØ		

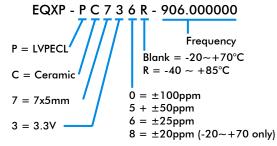
#### Typical applications

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

### **OUTLINE & DIMENSIONS**



# **Model Selection Guide**



#### **Jitter Measurements**

			Rj/Dj Composition		
Frequency (MHz)	Phase Jitter (12kHz~20MHz) (ps RMS)	Time Interval Error o of jitter distribution (ps RMS)		Deterministic Jitter (Dj) (ps p-p)	Total Jitter (Tj) (14*Rj)+Dj (ps)
62.5	1.01	3.1	1.27	8.1	26.2
156.25	0.86	3.5	1.29	9.3	27.7
212.50	1.05	3.6	1.22	8.6	26.1
622.08	0.94	3.5	1.21	9.6	26.8