EURO QUARTZ

LVPECL 7x5mm 2.5V VCXO

EQVP-PC72 SERIES

Features

- Extremely low jitter
- Low cost
- Express delivery
- Stability from ±20ppm, -40 to +85°C
- Absolute pull range ±50ppm
- Serial ID with comprehensive traceability

Description

The XPRESSO range of fully configurable VCXOs 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 VCXOs.

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

Electrical Specification

•	
Frequency Range:	0.750MHz ~ 1.0GHz
Absolute Pull Range:	±50ppm
Operating Temperature Range:	-20° ~ +70° to -40° ~ +85°C
Storage Temperature Range:	-55 to +125°C
Supply Voltage:	+2.5VDC ±5%
Input Current	
0.75 ~ 20.0MHz:	33mA
20+ ~ 220.0MHz:	41mA
220+ ~ 630.0MHz:	63mA
630+ ~ 1.000GHz:	72mA
Output Load:	50 Ω into Vdd-2VDC typical
Start-up Time:	10ms
Output Enable/Disable Time:	100ns
Control Voltage Tuning Slope:	40 ~ 75ppm/V typical
Control Voltage Linearity:	±10%
Control Voltage Tuning Range:	0V ~ 2.5V
Modulation Bandwidth:	10kHz minimum
Nominal Control Voltage:	1.25 volts
Low Output Voltage:	0.68V typical
High Output Voltage:	1.40V typical
Output Enable (Pad 2) Voltage:	>70% Vdd
Output Disable (Pad 2) Voltage:	<30% Vdd
Rise/Fall Times:	400ps
Moisture Sensitivity Level:	1
Termination Finish:	Au





Typical applications

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

Supply Format

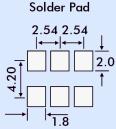
8.0mm pitch, 1k reel = 178mmØ

2k reel = 255mmØ

Tape and Reel, 16mm tape,



×w 2:5 m 1 #2 #3 * 1 #2 #3 2.54 9; 2.54

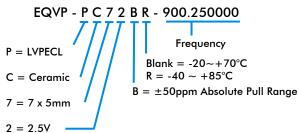


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Pad Connections

- 1 Voltage Control
- 2 Enable/Disable
- 3 Ground
- 4 Output 5 Output
- 6 Vdd
- b Vdd

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)		Deterministic Jitter (Dj) (ps p-p)	Total Jitter (Tj) (14*Rj)+Dj (ps)		
62.5	2.10	3.1	1.35	10.5	30.5		
156.25	1.20	3.5	1.36	10.0	29.3		
212.5	1.27	4.2	1.33	11.8	30.8		
622.08	1.68	3.7	1.06	8.3	23.4		

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

OUTLINE & DIMENSIONS

7.5 max.

#5 #4

Freq: 0.75MHz to 1.0GHz

#A