

EQXP-LC72 SERIES

LVDS 7x5mm 2.5V OSCILLATOR

Freq: 0.75MHz to 1.0GHz

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.

Typical applications

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

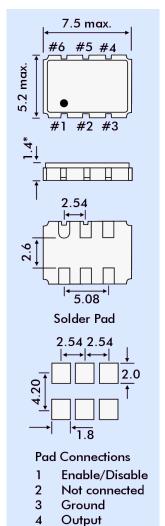
Electrical Specification

Frequency Range:	0.750MHz ~ 1.0GHz		
Frequency stability:	from ± 20 ppm to ± 100 ppm		
Operating Temperature Range:	-40° ∼ +85°C		
Storage Temperature Range:	-55° ∼ +125°C		
Supply Voltage:	+2.5Volts ±5%		
Input Current			
$0.75 \sim 20.0 MHz$:	26mA		
$20 + \sim 220.0 MHz$:	34mA		
$220 + \sim 630.0 MHz$:	44mA		
630+ ∼ 1.0GHz:	65mA		
Output Symmetry:	45/55%		
Rise/Fall Time:	400ps		
Differential Output Voltage:	0.4 Volts typical		
Output Offset Voltage:	1.25 Volts typical		
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:	Αυ		

Supply Format

Tape and Reel, 16mm tape, 8.0mm pitch, 1k reel = 178mmØ 2k reel = 255mmØ

OUTLINE & DIMENSIONS



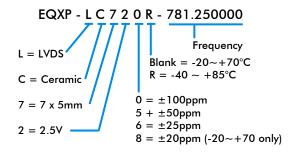
5

6

Output

Vcc

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	2.12	3.1	1.35	8.4	27.6
156.25	1.04	3.5	1.40	9.2	29.2
212.50	0.35	4.2	1.42	10.9	31.2
622.08	1.30	3.7	1.18	10.4	27.2