

EQVP-PC73 SERIES

LVPECL 7x5mm 3.3V VCXO

Freq: 0.75MHz to 1.35GHz

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 ~ 1.35GHz
	Absolute Pull Range:	±50ppm
	Operating Temperature Range:	$-20^{\circ} \sim +70^{\circ}$ to $-40^{\circ} \sim +85^{\circ}$ C
	Storage Temperature Range:	-55 to +125°C
	Supply Voltage:	+3.3VDC ±5%
	Input Current:	120mA
	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 ~ 3.3V
	Modulation Bandwidth:	10kHz minimum
	Nominal Control Voltage:	1.65 volts
	Low Output Voltage:	1.305V ~ 1.65V
	High Output Voltage:	2.055V ~ 2.405V
	Typical Complimentary Difference:	0.75V p-p 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:	Aυ

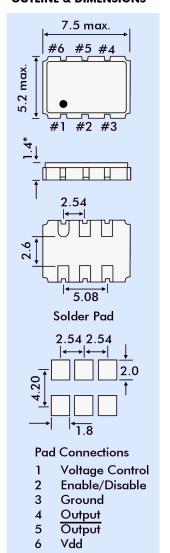
Typical applications

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

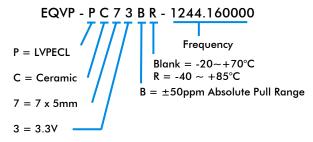
Supply Format

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

OUTLINE & DIMENSIONS



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	1.01	3.1	1.27	8.1	26.2
156.25	0.86	3.5	1.29	9.3	27.7
212.5	1.05	3.6	1.22	8.6	26.1
622.08	0.94	3.5	1.21	9.6	26.8